

FEDERAL BUREAU OF INVESTIGATION  
FOI/PA  
DELETED PAGE INFORMATION SHEET  
FOI/PA# 1210156-0

Total Deleted Page(s) = 112

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☐ Service Unit - Room 6524  
☐ Forward to File Review  
☐ Attention \_\_\_\_\_  
☐ Return to \_\_\_\_\_

☐ Regular Request (Analytical Search)  
☒ All References (Subversive & Nonsubversive)  
☐ Subversive References Only  
☐ Nonsubversive References Only  
☐ Main \_\_\_\_\_ References Only

☐ Restricted to Locality of \_\_\_\_\_  
☐ Exact Name Only (On the Nose)  
☐ Buildup ☐ Variations

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-2-82 BY SP-1 GSK/RBG  
R# 56685 CD/K9 3-6-85

FILE NUMBER	SERIAL
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SAC, Pittsburgh

1 - Mr. Moesburg  
1 - Mr. Jones  
June 2, 1965

REC-47  
Director, FBI

117-2564-X

DR. ZALMAN M. SHAPIRO  
REGISTRATION ACT - ISRAEL

DECLASSIFIED BY 566850/KJ  
ON 4-17-85

Enclosed for each recipient are two copies of an undated communication which was received by the Bureau from Mr. C. A. Palazzolo, Atomic Energy Commission, through liaison. (X)(u) Per DOE letter 4-16-85 x 6-6-85

Pittsburgh Institute Registration Act investigation to determine if subject is acting as an agent for the Israeli Government in the U.S. Also enclosed for Pittsburgh are four reports containing the results of AEA investigation of subject. Pittsburgh see your file 116-7749. (X)(u)

(u)(u) WFO check records of AEC, State, [ ] for any pertinent information concerning subject and also check the Registration Section of the Department to determine if subject is a registered agent. For information WFO, subject was born 5/12/20 in Canton, Ohio. As of 4/7/53 he resided at 806 Maple Street, West Mifflin, Pennsylvania.

Enclosure - 6

2 - WFO (Enclosures - 2)

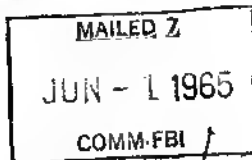
ALL INFORMATION CONTAINED  
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EXCEPT WHERE SHOWN  
OTHERWISE

ARJ:plh (6)

NOTE:

(u)(u) AEC advised it had received information indicating subject and the Nuclear Materials and Equipment Corporation, Apollo, Pennsylvania, have been negotiating with the Israeli Atomic Energy Commission to establish a joint company in Israel. It is believed that the subject's activities should be determined in order to see if he has incurred obligations under the Registration Act. The four reports sent to Pittsburgh are serials 2, 3, 4, and 9 of file 116-33804. Per DOE letter 4-16-85 6/6/85

Tolson \_\_\_\_\_  
Belmont \_\_\_\_\_  
Mohr \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
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Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_



Class. & Ext. By SP-1 GSK/RBG  
Reason: NCIM II, 1-2.4  
Date of Review 6-2-85

217,822 4-2-82

XEROX

JUN 2 1965

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MAIL ROOM ☐ TELETYPE UNIT ☐

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UNITED STATES GOVERNMENT

# Memorandum

**SECRET**

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DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY:  

TO : DIRECTOR, FBI

FROM : SAC, WFO   (P)

SUBJECT: DR. ZALMAN M. SHAPIRO  
REGISTRATION ACT - ISRAEL  
(OO:PG)

DATE: 6/23/65

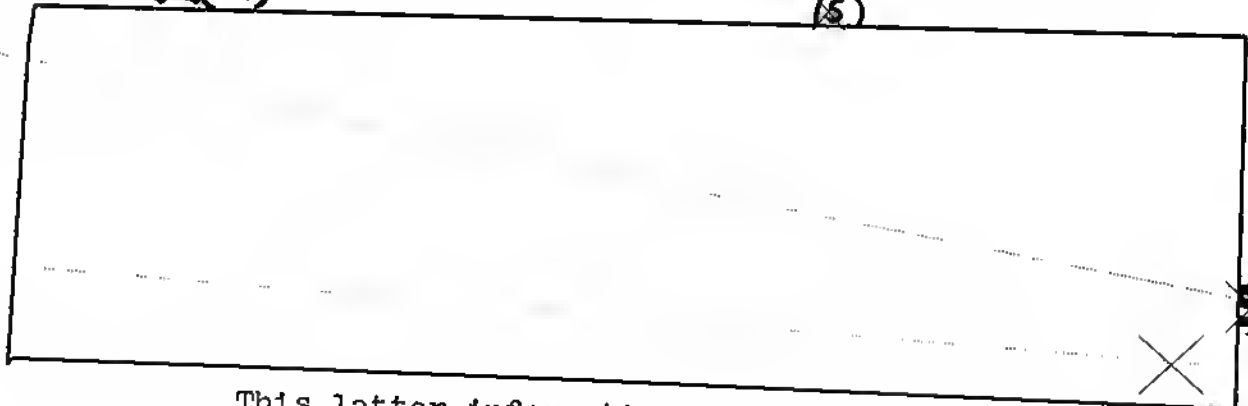
*4-17-85*  
*Classified By 5412 SLD/KJ*  
*Declassify on: OADR*  
*#m03R0758 8-12-03*  
*60290 BEE/MAT 1216*  
*AS AMENDED*

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ReBulet dated 6/2/65.

Remvairetel and LHM 3/19/65, captioned    
who is believed identical with subject. *(X)(4)*   IS - Israel one Dr. SHAPIRO  
copy.   Pittsburgh has  

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This latter information appears to relate to info set out in undated letter of C.A. PALAZZOLO of Atomic Energy Commission (AEC). *(X)(4)*   *Per DOE letter 4/16/65*

On 6/21/65, Mrs. ULDA ELDRED, Registration Section, Internal Security Division, U. S. Department of Justice, advised SA MALCOLM P. CARR that her records disclosed no record of registration for the subject.

Agency checks being made and results will be furnished promptly on receipt of same.

2 - Bureau  
2 - Pittsburgh (RM)  
2 - WFO Class. & Ext. By *SP-1 GSK/RB* REC 27  
Reason - FCIM *1-2.4.2*  
MPC:c11 Date of Review *6-23-85*

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EXCEPT WHERE SHOWN  
OTHERWISE



**SECRET**

NAT. DEF. SEC.

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



UNITED STATES GOVERNMENT

# Memorandum

TO

DIRECTOR, FBI

DATE:

7/29/65

FROM

SAC, PITTSBURGH [REDACTED]

P

SUBJECT

DR. ZALMAN M. SHAPIRO  
REGISTRATION ACT-ISRAEL  
OO - PITTSBURGH

*Ans - Extension  
filed in  
preparation of  
report re SHAPIRO  
written by [REDACTED]  
Pittsburgh Rev  
(Bupfile, 65-3-1)  
E.H.M./b/s*

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ReBulet to Pittsburgh dated 6/2/65, and Washington  
Field letter to Bureau dated 6/23/65.

The current Pittsburgh telephone directory lists  
ZALMAN M. SHAPIRO at [REDACTED] Pittsburgh, Pa.

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Records of the Voters Registration Bureau, County  
Building, Pittsburgh, Pa., as checked on 6/8/65, by SA  
DONALD F. WISEMAN, disclosed registration #A16416, for  
ZALMAN SHAPIRO, [REDACTED] Pittsburgh, Pa. The  
record indicated that SHAPIRO had resided at the above address  
since September, 1954, and listed his occupation as chemist.  
SHAPIRO was shown to be a white male born 5/12/20, in Ohio,  
5'9", brown hair, brown eyes.

Registration [REDACTED] for EVELYN G. SHAPIRO of [REDACTED]  
[REDACTED] indicated that she had resided there since  
September, 1954. She was shown to be a housewife born [REDACTED]  
in Maryland, 5'3", brown hair, brown eyes.

On 6/11/65, Mrs. JEAN RODRIGUEZ, Receptionist, Credit  
Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised  
IC GEORGE C. DIPPOLD that her records reflect that Dr. ZALMAN  
M. SHAPIRO and wife, EVELYN, reside at [REDACTED]  
Pittsburgh, Pa., and that Dr. SHAPIRO has been employed as the  
President of the Nuclear Materials Equipment Company of Appolo,  
Pa., since 1956. Said records indicated SHAPIRO was born in  
1920, and maintained a satisfactory credit rating. 117-2564-X2

2 - Bureau (RM)  
2 - Washington Field [REDACTED] (RM)  
1 - Pittsburgh  
DFW:mtl  
(5)

REC-50

ST-117

2 AUG 2 1965

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ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED

DATE 4-2-82 BY SP-1 GSK/RBC

5668 SLO/K9 3-6-85

55 AUG 16 1965

NAT. INT. SEC.



[REDACTED]

On 3/1/65, [REDACTED]

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[REDACTED] Pittsburgh, Pa.  
(conceal identity by request - has furnished reliable information in the past), furnished SA WISEMAN the following information concerning the Nuclear Materials and Equipment Corp., North 7th and Warren Avenue, Apollo, Pa.:

The Nuclear Materials and Equipment Corp., was incorporated in Pennsylvania on 12/31/56, and is located at Apollo, Pa., 33 miles northwest of Pittsburgh. The plant contains a bridge crane and railway spur and comprises about 55,000 square feet of laboratory and production area. The company also occupies a modern 25,000 square foot facility in Parks Township, Pa., and is fully equipped for handling work on intensely radioactive materials.

The functions and services of the Nuclear Materials and Equipment Corp., are as follows:

Products: Produces, melts, fabricates and recovers a variety of special materials which are used primarily, although not exclusively in the nuclear power industry. These materials include particularly the metals, alloys and compounds required for nuclear fuel and control purposes. Not only are materials manufactured but also used in the production and testing of materials and other special services:

1. Fuel Materials: Manufactured items include alloys such as uranium, zirconium, uranium-aluminum and uranium-aluminum. In addition, prepares special uranium oxides of the proper size and other physical characteristics required for the manufacture of aluminum and stainless steel dispersion elements. Also produces thorium and its alloys, manufactures plutonium fuel alloys. Company not only prepares raw materials, alloys and compounds, but also machines them and pelletizes them into required sizes and shapes.

2. Neutron & Radioisotopic Heat Sources: Used for start-up of reactors and other industrial purposes



(such as oil well logging).

3. Control Materials: The company manufactures and fabricates into finished control rods hafnium, cadmium-silver, copper-bare carbide and europium.

4. Specialized Equipment: Also manufactures specialized equipment used in the production and testing of materials, such as cathodic vacuum etchers; arc-melting, vacuum, and special atmosphere furnaces; high-pressure inert gas purification units; high-vacuum valves; inert gas welding chambers and other specialized machinery and equipment.

5. Other Special Services: Derives revenues from chemical, analytical and metallurgical product evaluation, such as corrosion testing, spectrographic analysis and also isotopic assays.

To perform these functions and services, the corporation has a complete chemistry laboratory, including advanced mechanical and physical metallurgical equipment necessary for a well rounded reactor materials research and development program. These laboratory facilities include complete wet analytical and instrumental facilities and a separate physical chemical laboratory equipped to undertake advance physical chemical measurements involving high vacuum and high temperature techniques. An additional chemical engineering laboratory is engaged in development laboratory-scaled production activities in connection with scrap recovery, the production of materials such as uranium oxides and compounds and chemical separations.

In addition to the above activities, the Nuclear Materials and Equipment Corp. has moved into the function of operating contractor, managing Boron Isotope separation facility for the Atomic Energy Commission. Also, designs and produces portable irradiators, and complete isotopic-powered electric generating systems for terrestrial applications.



The management of Nuclear Materials and Equipment Corp., ~~is~~ as follows:

ZALMAN M. SHAPIRO, Ph.D.,  
President, General Manager

SHAPIRO was born 1920, and is married. He completed his formal education in 1948 and holds a B.A., M.A. and Ph.D. Degrees from Johns Hopkins University. He was a research associate at Johns Hopkins 1942-46. In 1948, he was employed by Westinghouse Electric Corporation, and continued with that organization until 1956. During his employment with Westinghouse, he was supervisor of zirconium process development, manager physical chemistry and chemical control, manager of chemical metallurgy and uranium oxide development, and manager reactor design, P.W.R. Core 2. SHAPIRO holds four patents on pure metals production and has 17 patent disclosures pending. He is a member of the American Chemical Society; A.A.A.S.; A.S.M.; A.S.M.E. and A.I.M.E. He is a member of the American Chemical Society. He is chief executive officer. \$150,000 of life insurance is carried on his life for the benefit of the business. He is chairman of Board of Numec Instrument & Controls Corp., affiliate, Apollo, Pa.; and President of Nuclear Decontamination Corp.

LEONARD P. PEPKOWITZ, Ph.D.  
Vice President

PEPKOWITZ was born 1916, and is married. He completed his formal education in 1943 and holds a B.S. Degree from the University of Minnesota; earned his Ph.D. at Rutgers University. He was employed as Assistant Chemist of Rhode Island Experiment Station from 1943 to 1944, 1944-45 chemist Los Alamos Atomic Laboratory, 1945-46 group leader analytical chemistry, Los Alamos Atomic Laboratory. In 1947, he was employed by Knolls Atomic Power Laboratory, and continued there until 1957 at which time he resigned. He served as manager of metallurgical and chemical analysis, and manager of the chemical laboratory. He is author or co-author of over thirty papers and scientific journals as well as many



[REDACTED]

classified publications. He is a member of the American Chemical Society, A.A.A.S.; New York Academy of Sciences. He is in charge of chemistry. \$100,000 of life insurance is carried on his life for benefit of the business. He is general manager of the Niagara Division, a subsidiary of the Nuclear Materials and Equipment Corp.

FREDERICK FORSCHER, Ph.D.  
Vice President

FORSCHER was born in 1918 and is married. He holds B.S. and M.S. degrees from Princeton University and earned his Ph.D. at Columbia University. He was assistant civil engineer at Princeton University 1946-47. Instructor, mechanics and material, Columbia University, 1947-52; supervisor, mechanical metallurgy, Westinghouse Electric Corporation, 1952 to 1957. He is a member of the Princeton Engineering Society; A.S.M.-S.L.A. Metallurgical Literature Classification Committee; A.S.M., A.I.M.E., S.E.S.A. and A.S.M.E. He is in charge of metallurgical. \$100,000 of life insurance is carried on his life for the benefit of the business.

OSCAR S. GRAY  
Vice President-Treasurer

GRAY was born in [REDACTED] He is single and became associated with the corporation April 1, 1957. He graduated from Yale College and Yale Law School and holds a B.A. Degree and LL.B. Degree. From 1951 until becoming associated with this organization, he was a member of the legal advisors office of the Department of State, Washington, D. C. He handles financial and legal matters for the corporation. \$100,000 of life insurance is carried on his life for the benefit of the business. He is secretary-treasurer of Numec Instrument & Controls Corp.; and is treasurer of Nuclear Decontamination Corp., both subsidiaries of the Nuclear Materials Equipment Corp.

JACK R. NEWMAN  
Secretary - General Counsel

NEWMAN was born in [REDACTED] is married, and is a native of New York State. He is an attorney by profession



[REDACTED]

and a member of the Bar of New York State. NEWMAN is a graduate of Cornell University, School of Industrial and Labor Relations and also a graduate of Columbia University Law School, Class of 1959. Prior to 1960, he was associated with general counsel for the United States Atomic Energy Commission. Since 1960, NEWMAN had been counsel for the Joint Congressional Committee on Atomic Energy. NEWMAN served as a First Lieutenant in the U. S. Air Force from 1955 to 1957. He was elected to his present office about November 9, 1964.

MEREDITH S. JOHNSON  
Controller & Assistant Treasurer

JOHNSON was born in [REDACTED] is married and is a 1951 graduate of the University of Pittsburgh with a B.S. Degree in Business Administration. He is a C.P.A. by profession. He formerly had been employed by Bachrach, Sanderbeck & Co., C.P.A.'s, Pittsburgh, Pa., and by U. S. Army Air Force from 1941 to 1945. In 1956, he became an officer of Magnetics, Inc., Butler, Pa., manufacturer of electronic and magnetic materials and components. Later was Vice President and Treasurer of the corporation, but resigned to assume present office with the Nuclear Materials & Equipment Corp., in December, 1964.

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The Nuclear Materials & Equipment Corp., now has branch activity in Lewiston, N.Y.

Pittsburgh file 116-7749 ((Bufile 116-133804)) reflected that AEAA and AEAL investigations were conducted concerning SHAPIRO in 1949 and 1953, respectively. No derogatory information concerning SHAPIRO was developed in the Pittsburgh area as a result of these investigations.

It is noted that a PSQ executed by SHAPIRO on 2/7/49, indicated that he was a member of the Independent





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Citizens Committee of the Art, Sciences and Professions in 1946-47. This organization has been cited in the Guide to Subversive Organizations and Publications revised and published as of January 2, 1957.

LEADS

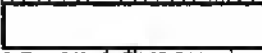
WASHINGTON FIELD

At Washington, D. C.

Recontact Registration Section, Internal Security Division, U. S. Department of Justice and check registration records to determine if the Nuclear Materials and Equipment Corp. of Apollo, Pa., or officials of that company, OSCAR S. GRAY or JACK R. NEWMAN, are registered, it being noted that OSCAR S. GRAY handles financial and legal matters for the Nuclear Materials and Equipment Corp., and was a member of the legal advisors office of the Department of State, Washington, D. C., and JACK R. NEWMAN prior to 1960 was associated with the General Counsel for the U. S. Atomic Energy Commission, and is an attorney by profession.

PITTSBURGH

At Pittsburgh, Pa. (Allegheny County)

Will continue to obtain information regarding subject's activities through  telephone toll checks, physical surveillances and through established sources.

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UNITED STATES GOVERNMENT

# Memorandum

~~CONFIDENTIAL~~

~~SECRET~~

TO : DIRECTOR, FBI [REDACTED]

DATE: 8/23/65

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FROM : SAC, WFO [REDACTED] (RUC)

SUBJECT: Dr. ZALMAN M. SHAPIRO  
RA - ISRAEL  
(OO:PG)

~~DECLASSIFIED BY 5668 SW/KR~~  
~~4-17-85~~

ReMYlet dated 6/23/65, and Pittsburgh letter dated 7/29/65.

On 6/9/65 Miss SHARON HEBB, Clerk, Division of Security, Atomic Energy Commission, Germantown, Maryland, advised SA J. RICHARD NICHOLS that the subject's security file, # WA 118492 (CH 2923-PI-CI-NY), was located at AEC'S Operations Office, New York City. His "Q" clearance was extended on 3/29/63 and is still active. No additional information was contained in the security file at Germantown.

On 7/20/65 SA ROBERT F. ROBINSON, JR., was advised that [REDACTED] contained no identifiable pertinent information concerning the subject.

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On 8/10/65 Mrs. ULDA ELDRED, Registration Section, Internal Security Division, USDJ, advised SA HAROLD RUBENSTEIN that the files of her office contained no record of Nuclear Materials and Equipment Corporation of Apollo, Pennsylvania, OSCAR S. GRAY or JACK R. NEWMAN.

On 8/17/65 information made available to SA MALCOLM P. CARR by the Office of Security, USDS, disclosed no information identifiable with the subject.

For the assistance of New York, subject was born 5/12/20 in Canton, Ohio. He has been employed as President

- 2 - Bureau
- 2 - Pittsburgh [REDACTED] (RM)
- 2 - New York
- 1 - WFO

REC-58

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MPC:gs  
(7)

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13 AUG 26 1965

Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM II, 1-2.4.2  
Date of Review 2-23-85  
4-2-82

NAT. INT. SEC.

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57 SEP 8 1965

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of Nuclear Materials Equipment Corporation of Apollo, Pennsylvania, since 1956. Investigation in this matter was based on an undated memo from C. A. PALAZZOLO, Chief, Research Branch, Division of Security, AEC, disclosing that AEC had received information indicating subject and Nuclear Material and Equipment Corporation have been negotiating with the Israeli Atomic Energy Commission to establish a joint company in Israel. The company is to be known as Israeli Numec Isotopes and Radiation Enterprises (Isorad), Ltd., and initially is to engage in the irradiation of citrus fruit. For this purpose Cobalt 60 sources are to be imported from the United States.

Per DOE  
letter  
4-16-85  
6-6-83

(S)(4)

LEADS

NEW YORK DIVISION

AT NEW YORK CITY, will review subject's security file # WA 118492 (CH-2923-PI-NY) at AEC Operations Office for all information pertinent to this investigation.



~~CONFIDENTIAL~~

~~SECRET~~



UNITED STATES GOVERNMENT

# Memorandum

~~SECRET~~

TO : DIRECTOR, FBI [REDACTED]

FROM : SAC, NEW YORK [REDACTED] (RUC)

SUBJECT: CHANGED  
DR. ZALMAN MORDECAI SHAPIRO  
RA-ISRAEL  
(OO: PITTSBURGH)

DATE: 10/1/65

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DECLASSIFIED BY 5668 SLD/KJ  
ON 4-17-85

Title has been marked changed to delete Dr. ZALMAN M. SHAPIRO as subject's true name and to add Dr. ZALMAN MORDECAI SHAPIRO, which name was shown in AEC files, NYC.

ReWFOlet to Bureau, 8/23/65.

On 9/29/65, Mr. MARTIN DOWD, AEO, Hudson Street, NYC, made available AEC file #CH2923PI, New York for ZALMAN MORDECAI SHAPIRO, born 5/12/20. This file revealed SHAPIRO was subject of Pittsburgh file 116-7749 and Bufile 116-133804, and no information pertinent to this investigation was noted in this file.

Subject's security file revealed, however, that he presently holds a "Q" clearance by the AEC and has travelled in the past to visit the United Kingdom AEC, the Swedish AEC and the Canadian AEC.

Mr. DOWD reviewed his inspection file and located a memorandum dated 5/7/65 to HARRY R. WALSH, Director, Security and Property Management Division, New York from C.A. PALAZZOLO, Chief, Research Branch, Division of Security Headquarters, concerning SHAPIRO. [This memorandum contains the same information as set forth in relet in that subject and the Nuclear Material and Equipment Corporation have been negotiating with the Israeli Atomic Energy Commission to establish a joint company in Israel to be known as Israeli NUMEC Isotopes and Radiation Enterprises (ISORAD), Ltd.] It may be noted, according

X(4)  
Per DOE  
4-16-85  
6-6-85

REC-22

117-2564-X4

- 2-Bureau [REDACTED] (RM)
- 2-Pittsburgh [REDACTED] (Enc.1) (RM)
- 1-New York [REDACTED]

FPC:EG Class. & Ext. By SP-1655/R86  
(5) Reason ECIM II, 1-24.2  
Date of Review 10-1-85

16 OCT 4 1965

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Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE



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Entire Page unclassified  
Per DOD Letter 4-16-85  
6-6-85

[REDACTED]

to DOWD, upon receipt of the above memorandum, the AEC, New York took no action and, in fact, no other information concerning ISORAD was available in the files of the AEC, NYC.

A review of the AEC inspection file revealed an AEC inspection report dated 7/2/64 of the NUMEC, Administration Building and Uranium Plants, Apollo, Pennsylvania. This report is classified "~~Secret~~". (S)(u)

This report states in part that "NUMEC is a sales agent for the Government of Israel through its Minister of Defense, Division of Supplies, 830 Third Avenue, New York 22, New York. (S)(u)

"In this connection NUMEC has an arrangement with the Israeli Atomic Energy Commission to do biological work in insect control; and assist in establishing facilities for the irradiation and preservation of citrus fruits. NUMEC has a proposal pending with the Israeli Government for the design, construction and operation of facilities for irradiation and preservation of foodstuffs in various parts of the world. This latter proposal, if approved, will result in NUMEC and the Israeli AEC sharing on a fifty-fifty basis the corporate facilities so constructed. NUMEC has a contract with the Israeli AEC for the general development of plutonium oxide as fuel elements in nuclear reactors. (S)(u)

"NUMEC has a contract with Chemical and Phosphates Limited, Post Office Box 1428, Haifa, Israel, for calcium-zirconium production. This contract also involves a joint program in food irradiation." (S)(u)

It may be noted that this inspection report also states that NUMEC has a contract with Japanese atomic firms and also contracts with the Australian Government to supply that government 330 plutonium-aluminum fuel elements. (S)(u)

This inspection report stated that NUMEC actively participates with foreign companies and foreign governments in the field of civil nuclear energy. Further, NUMEC performs (S)(u)

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Para 1, 2 unclassified  
Per DOE letter 4-16-85 + 6-6-85

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a wide range of classified and unclassified work for the AEC under various prime contracts and purchase orders. (S)(u)

This inspection report also pointed out that located in the Administration Building of NUMEC, Apollo, Pennsylvania, is the NUMEC Instruments and Controls Corporation (NUMINCO), a firm established to manufacture and market nuclear instruments and processes control equipment. NUMINCO, according to this report, is owned by the Societe d'Applications Industrielles de la Physique, Paris, France; by NUMEC and by a group of private investors each having about one-third interest. This commercial enterprise, according to this inspection report, is completely divorced from NUMEC's AEC interests either classified or unclassified. (S)(u)

The above information taken from the AEC inspection report and classified "~~Secret~~" as noted above, is being set forth for the information of the Pittsburgh Division (S)(u)

Mr. DOWD made available the most recent PSQ executed by the subject, which is being forwarded to Pittsburgh for the completion of their files.

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**SECRET**DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [REDACTED]**FEDERAL BUREAU OF INVESTIGATION**b6  
b7c

REPORTING OFFICE <b>PITTSBURGH</b>	OFFICE OF ORIGIN <b>PITTSBURGH</b>	DATE <b>10/25/65</b>	INVESTIGATIVE PERIOD <b>6/8/65 - 10/29/65</b>
TITLE OF CASE <b>DR. ZALMAN MORDECAI SHAPIRO</b>		REPORT MADE BY <b>DONALD F. WISEMAN</b>	TYPED BY <b>alb</b>
<del>#m03 R758 8-19-83</del> <del>60290 RCE/MLT/JTG</del> <del>AS AMENDED</del>		CHARACTER OF CASE <b>REGISTRATION ACT - ISRAEL</b>	

REFERENCES

Bureau letter to Pittsburgh dated 6/2/65.  
 Washington Field letter to Bureau dated 6/23/65.  
 Pittsburgh letter to Bureau dated 7/29/65.  
 Washington Field letter to Bureau dated 8/23/65.  
 New York letter to Bureau dated 10/1/65.

- P -

LEADSWASHINGTON FIELDAT WASHINGTON, D. C.

Will, at the Passport Office, U. S. State Department, review subject's passport records concerning his travel abroad.

Class. & Ext. By **SP-1 GSK/LRBG**

Reason - FCIM II, 1-2.4.2 - 2+3

Date of Review **10-15-85**

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED

EXCEPT WHERE SHOWN

OTHERWISE

**117-2564-X5**

APPROVED <b>217,822</b>	SPECIAL AGENT IN CHARGE <b>11/04/78</b>	DO NOT WRITE IN SPACES BELOW
COPIES MADE:		

4-Bureau [REDACTED] (RM)

2-Washington Field [REDACTED] (RM)

2-Pittsburgh [REDACTED]

REC-68

EX 11

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Dissemination Record of Attached Report			Notations
Agency	<b>RAIO</b>	<b>State</b>	<b>FAEC</b>
Request Recd.			
Date Fwd.	<b>11-12-65</b>		
How Fwd.	<b>R/S</b>		
By	<b>EHM/bld</b>		

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PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

1. Will interview subject upon receipt of Bureau authorization. Request for interview will be subsequently submitted.

2. Will report pertinent information concerning contacts of subject as determined through tolls charged to residence telephone of subject.

ADMINISTRATIVE

In the event information pertaining to [REDACTED] is needed, a subpoena duces tecum should be issued [REDACTED]

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This report is classified "~~Secret~~" because information set forth herein was obtained from AEC inspection reports which were so classified. (X4)

Per DOE  
letter 4-16-

(U)

INFORMANTS

Informant

Location

PG T-1 is [REDACTED] (S)

PG T-2 is [REDACTED]

[REDACTED] (by request)

PG T-3 is [REDACTED]

This report, pages 8 and 9

(by request), who furnished information to SA EDWARD P. HOUGHTON.

PG T-4 is [REDACTED]

This report, page 9

(by request), who furnished information to SA EDWARD P. HOUGHTON.

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[redacted]

Informant

Location

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PG T-5 is [redacted]

This report, page 9

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[redacted] (by request), who furnished information to SA EDWARD P. HOUGHTON.

(4) (S)

PG T-6 is [redacted]

This report, pages 9 and 10

[redacted] (by request) who furnished information to SA EDWARD P. HOUGHTON.

✓ PG T-7 is [redacted]

PG 116-7749-24

PG T-8 is [redacted]

PG 116-7749-24

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~~SECRET~~~~SECRET~~UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATIONDECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: b6  
b7C

Copy to:

Report of: DONALD F. WISEMAN  
Date: 10/25/65

Office: PITTSBURGH, PA.

Field Office File #: Bureau File #: b3  
b7E

Title: DR. ZALMAN MORDECAI SHAPIRO

~~SECRET~~  
#m 03 R 758 8-11-03  
CLASSIFIED 10/24/84 BLC/mf/216  
DECLASSIFY ON: ESN 16  
AS AMENDED

Character: REGISTRATION ACT - ISRAEL

Per DOE letter  
4-16-85 + 6-6-85

Synopsis:

Subject, President of Nuclear Materials and Equipment Corporation, Apollo, Pa., reportedly negotiating with the Israeli Atomic Energy Commission (AEC), to establish a joint company in Israel, known as Israel Numec Isotopes and Radiation Enterprises (ISORAD), Limited. Background data regarding subject, the Nuclear Materials and Equipment Corporation, Apollo, Pa., and its officials set forth. Financial activities of subject set forth. Records of Registration Section, Internal Security Division, U. S. Department of Justice, Washington, D. C., contain no record of subject, the Nuclear Materials and Equipment Corporation of Apollo, Pa., or other pertinent officers of this company. AEC records reflect Numec, in which subject is reportedly Chairman of Board, is a sales agent for the Government of Israel through its Minister of Defense, Division of Supplies, New York City. ] (4) (S)

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

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Classified By: ~~SP-1 GSK/IRBG~~  
Declassify on: ~~OPR 85~~  
4-17-85

Class. & Ex. By SP-1 GSK/IRBG  
Reason - FCIM II, 1-2.4.2 2+3  
Date of Review 10-25-85  
4-7-82

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~~DECLASSIFIED~~  
~~DECLASSIFY ON: AUTOMATIC~~~~SECRET~~



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DETAILS:

I. NATURE OF ALLEGATION

(U) Investigation was instituted as the result of an undated memorandum from C. A. PALAZZOLO, Chief, Research Branch, Division of Security, Atomic Energy Commission (AEC), disclosing that AEC had received information indicating subject and the Nuclear Materials and Equipment Corporation, Apollo, Pa., have been negotiating with the Israeli AEC to establish a joint company in Israel. The company is to be known as the Israeli Numec Isotopes and Radiation Enterprises (ISORAD), Limited, and initially is to engage in the irradiation of citrus fruit. For this purpose, Cobalt 60 sources are to be imported from the United States. (S) (U) Per DOE letter 4-16-85 6-6-85

On March 17, 1965, PG T-1



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II. BACKGROUND DATA REGARDING ZALMAN MORDECAI SHAPIRO

On September 30, 1959, ZALMAN MORDECAI SHAPIRO executed a Personnel Security Questionnaire (PSQ), for the Department of Defense on which he listed his date and place of birth as May 12, 1920, Canton, Ohio. He indicated he was married to EVELYN GREENBERG SHAPIRO, who was born in the United States in [redacted]. He described himself as being 5'9", 187 pounds, brown eyes and brown hair. He indicated that he was then President of the Nuclear Materials and Equipment Corporation, Apollo, Pa., and had held this position since February, 1957. SHAPIRO further indicated he was employed as an Assistant Subdivision Manager for Westinghouse Electric Corporation, Pittsburgh, Pa., from 1948 to 1957. His questionnaire showed he received BA, MA and EdD degrees from Johns Hopkins University, Baltimore, Md., during the period from 1938 to 1948. He listed his relatives as:

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Mother	MINNIE SHAPIRO, born 1894 in Poland
Father	ABRAHAM SHAPIRO, deceased, born in Poland
Sister	ZIPPARCH SHAPIRO SCHEFRIN, born 1917 in United States
Sons	[redacted] born [redacted] in United States [redacted] born in United States
Daughter	[redacted] born in United States.

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Pa. All of the above reside at [redacted] Pittsburgh, Pa.

On March 7, 1949, Mrs. E. M. ZIEGLER, Bureau of Vital Statistics, Canton, Ohio, made available to SA RICHARD S. BEIER a birth certificate indicating that ZALMAN MORDECAI SHAPIRO was born on May 12, 1920, at Canton, Ohio. The subject's father and mother were listed as ABRAHAM SHAPIRO and MINNIE PINK, respectively, and their birthplace was listed as Russia.

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[redacted]

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The current Pittsburgh telephone directory lists ZALMAN M. SHAPIRO at [redacted] Pittsburgh, Pa.

Records of the Voters Registration Bureau, County Building, Pittsburgh, Pa., as checked on June 8, 1965, by SA DONALD F. WISEMAN, disclosed registration #A16416, for ZALMAN SHAPIRO, [redacted] Pittsburgh, Pa. The record indicated that SHAPIRO had resided at the above address since September, 1954, and listed his occupation as chemist. SHAPIRO was shown to be a white male, born May 12, 1920, in Ohio, 5'9", brown hair and brown eyes.

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Registration [redacted] for EVELYN G. SHAPIRO of [redacted] indicated that she had resided there since September, 1954. She was shown to be a housewife born [redacted] in [redacted] 5'3", brown hair, and brown eyes.

On June 11, 1965, Mrs. JEAN RODRIGUEZ, Receptionist, Credit Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised IC GEORGE C. DIPPOLD that her records reflect that Dr. ZALMAN M. SHAPIRO and wife, EVELYN, reside at [redacted] Pittsburgh, Pa., and that Dr. SHAPIRO has been employed as the President of the Nuclear Materials Equipment Company of Apollo, Pa., since 1956. She said records indicated SHAPIRO was born in 1920, and maintained a satisfactory credit rating.

(u) (S) [On July 1, 1965, PG T-2] furnished the following information regarding ZALMAN MORDECAI SHAPIRO, President and General Manager of the Nuclear Materials and Equipment Corporation, Pittsburgh, Pa.:

SHAPIRO was born in 1920, and is married. He completed his formal education in 1948, and holds a BA, MA and EdD Degrees from Johns Hopkins University. He was a research associate at Johns Hopkins 1942 - 1946. In 1948, he was employed by Westinghouse Electric Corporation, and continued with that organization until 1956. During his employment with Westinghouse, he was supervisor of zirconium process development, manager physical chemistry and chemical control, manager of chemical metallurgy and uranium oxide development, and manager, reactor design, P. W. R. Core 2.

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[REDACTED]

SHAPIRO holds four patents on pure metals production and has 17 patent disclosures pending. He is a member of the American Chemical Society; A.A.A.S.; A.S.M.; A.S.M.E. and A.I.M.E. He is chief executive officer. \$150,000 of life insurance is carried on his life for the benefit of the business. He is chairman of Board of Numec Instrument and Controls Corporation, affiliate, Apollo, Pa.; and President of Nuclear Decontamination Corporation.

III. INFORMATION CONCERNING THE NUCLEAR MATERIALS AND EQUIPMENT CORPORATION, APOLLO, PA., AND OFFICIALS

(u) ~~SECRET~~ On July 1, 1965, PG T-27 furnished the following information concerning the Nuclear Materials and Equipment Corporation, North 7 and Warren Avenue, Apollo, Pa.:

The Nuclear Materials and Equipment Corporation, was incorporated in Pennsylvania on December 31, 1956, and is located at Apollo, Pa., 33 miles northwest of Pittsburgh. The plant contains a bridge crane and railway spur and comprises about 55,000 square feet of laboratory and production area. The company also occupies a modern 25,000 square foot facility in Parks Township, Pa., and is fully equipped for handling work on intensely radioactive materials.

The functions and services of the Nuclear Materials and Equipment Corporation are as follows:

Products: Produces, melts, fabricates and recovers a variety of special materials which are used primarily, although not exclusively, in the nuclear power industry. These materials include particularly the metals, alloys and compounds required for nuclear fuel and control purposes. Not only are materials manufactured but are also used in the production and testing of materials and other special services:

1. Fuel Materials: Manufactured items include alloys such as uranium, zirconium, uranium-aluminum and uranium-aluminum. In addition, prepares special uranium oxides of the proper size and other physical characteristics required for the manufacture of aluminum and stainless steel dispersion elements. Also produces thorium and its alloys, manufactures plutonium fuel alloys. Company not only prepares raw materials, alloys and compounds, but also machines them and pelletizes them into required sizes and shapes.

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2. Neutron and Radioisotopic Heat Sources: Used for start-up of reactors and other industrial purposes (such as oil well logging).

3. Control Materials: The company manufactures and fabricates into finished control rods hafnium, cadmium-silver, copper-boron carbide and europium.

4. Specialized Equipment: Also manufactures specialized equipment used in the production and testing of materials, such as cathodic vacuum etchers; arc-melting, vacuum, and special atmosphere furnaces; high-pressure inert gas purification units; high-vacuum valves; inert gas welding chambers and other specialized machinery and equipment.

5. Other Special Services: Derives revenues from chemical, analytical and metallurgical product evaluation, such as corrosion testing, spectrographic analysis and also isotopic assays.

To perform these functions and services, the corporation has a complete chemistry laboratory, including advanced mechanical and physical metallurgical equipment necessary for a well rounded reactor materials research and development program. These laboratory facilities include complete wet analytical and instrumental facilities and a separate physical chemical laboratory equipped to undertake advanced physical chemical measurements involving high vacuum and high temperature techniques. An additional chemical engineering laboratory is engaged in development laboratory-scaled production activities in connection with scrap recovery, the production of materials such as uranium oxides and compounds and chemical separations.

In addition to the above activities, the Nuclear Materials and Equipment Corporation has moved into the function of operating contractor, managing Boron Isotope separation facility for the AEC. Also, designs and produces portable irradiators, and complete isotopic-powered electric generating systems for terrestrial applications.

The management of Nuclear Materials and Equipment Corporation is as follows:

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[REDACTED]

LEONARD P. PEPKOWITZ, PhD  
Vice-President

PEPKOWITZ was born 1916, and is married. He completed his formal education in 1943 and holds a BS Degree from the University of Minnesota; earned his PhD at Rutgers University. He was employed as Assistant Chemist of Rhode Island Experiment Station from 1943 to 1944; 1944 - 1945, chemist, Los Alamos Atomic Laboratory, 1945 - 1946, group leader, analytical chemistry, Los Alamos Atomic Laboratory. In 1947, he was employed by Knolls Atomic Laboratory, and continued there until 1957, at which time he resigned. He served as manager of metallurgical and chemical analysis, and manager of the chemical laboratory. He is author or co-author of over 30 papers and scientific journals as well as many classified publications. He is a member of the American Chemical Society, A.A.A.S.; New York Academy of Sciences. He is in charge of chemistry. \$100,000 of life insurance is carried on his life for benefit of the business. He is general manager of the Niagara Division, a subsidiary of the Nuclear Materials and Equipment Corporation.

FREDERICK FORSCHER, PhD  
Vice-President

FORSCHER was born in 1918 and is married. He holds BS and MS Degrees from Princeton University and earned his PhD at Columbia University. He was assistant civil engineer at Princeton University 1946 - 1947. Instructor, mechanics and material, Columbia University, 1947 - 1952; supervisor, mechanical metallurgy, Westinghouse Electric Corporation, 1952 to 1957. He is a member of the Princeton Engineering Society; A. S. M.-S. L. A. Metallurgical Literature Classification Committee; A.S.M., A.I.M.E., S.E.S.A. and A.S.M.E. He is in charge of metallurgical. \$100,000 of life insurance is carried on his life for the benefit of the business.

OSCAR S. GRAY  
Vice-President - Treasurer

GRAY was born in [REDACTED] He is single and became associated with the corporation April 1, 1957. He graduated from Yale College and Yale Law School and holds a BA Degree and LLB Degree. From 1951 until becoming associated with this organization, he was a member of the legal advisor's

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office of the Department of State, Washington, D. C. He handles financial and legal matters for the corporation. \$100,000 of life insurance is carried on his life for the benefit of the business. He is secretary-treasurer of Numec Instrument and Controls Corporation; and is treasurer of Nuclear Decontamination Corporation, both subsidiaries of the Nuclear Materials Equipment Corporation.

JACK R. NEWMAN  
Secretary - General Counsel

NEWMAN was born in [redacted] is married, and is a native of New York State. He is an attorney by profession and a member of the Bar of New York State. NEWMAN is a graduate of Cornell University, School of Industrial and Labor Relations and also a graduate of Columbia University Law School, Class of 1959. Prior to 1960, he was associated with general counsel for the United States AEC. Since 1960, NEWMAN had been counsel for the Joint Congressional Committee on Atomic Energy. NEWMAN served as a First Lieutenant in the United States Air Force from 1955 to 1957. He was elected to his present office about November 9, 1964.

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MEREDITH S. JOHNSON  
Controller and Assistant Treasurer

JOHNSON was born in [redacted] is married and is a 1951 graduate of the University of Pittsburgh with a BS Degree in Business Administration. He is a C. P. A. by profession. He formerly had been employed by Bachrach, Sanderbeck and Company, C. P. A.'s, Pittsburgh, Pa., and by United States Air Force from 1941 to 1945. In 1956, he became an officer of Magnetics, Inc., Butler, Pa., manufacturer of electronic and magnetic materials and components. Later was Vice-President and Treasurer of the corporation, but resigned to assume present office with the Nuclear Materials and Equipment Corporation in December, 1964.

The Nuclear Materials and Equipment Corporation now has branch activity in Lewiston, N. Y.

IV. [redacted]

(u) [redacted] On August 30, 1965, PG T-3 advised that [redacted]

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[REDACTED]

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(u)(X) [On September 21, 1965, PG T-4] advised [REDACTED]

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[REDACTED]

(u)(X) [On October 13, 1965, PG T-5] advised that [REDACTED]

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[REDACTED]

(u)

(u)(X) [PG T-5] advised that [REDACTED]

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[REDACTED]

PG T-5 advised that [REDACTED]

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[REDACTED]

(u)(X) [On October 14, 1965, PG T-5] advised that [REDACTED]

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[REDACTED]

(u)(X) [On October 13, 1965, PG T-6] advised that [REDACTED]

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[redacted]  
[redacted]  
The above information furnished by [PG T-3, PG T-5 (S)(u)] and PG T-6 can only be made public following the issuance of a subpoena duces tecum.

V. INFORMATION FROM RECORDS OF OTHER GOVERNMENT AGENCIES

On June 9, 1965, Miss SHARON HEBB, Clerk, Division of Security, AEC, Germantown, Md., advised SA J. RICHARD NICHOLS that the subject's security file, #WA 118492 (CH 2923-PI-CI-NY) was located at AEC Operations Office, New York City. His "Q" clearance was extended on March 29, 1965, and is still active. No additional information was contained in the security file at Germantown regarding subject.

On June 21, 1965, Mrs. ULDA ELDRED, Registration Section, Internal Security Division, United States Department of Justice, Washington, D. C., advised SA MALCOLM P. CARR that her records disclosed no record of registration for the subject.

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On July 20, 1965, SA ROBERT F. ROBINSON, JR., was advised [redacted]  
[redacted]  
[redacted]

On August 10, 1965, Mrs. ULDA ELDRED, mentioned above, advised SA HAROLD RUBENSTEIN that the files of her office contained no record of the Nuclear Materials and Equipment Corporation of Apollo, Pa., OSCAR S. GRAY or JACK R. NEWMAN.

On August 17, 1965, information made available to SA MALCOLM P. CARR by the Office of Security, United States Department of State, disclosed no information identifiable with subject.

On September 29, 1965, Mr. MARTIN DOWD, AEC, Hudson Street, New York City, advised from the subject's AEC file #CH2923PI as follows: (S)(u)

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*Entire page unclassified  
Per DoS letter 4-16-85 # 6-6-85*

[ ]

This file revealed that Dr. ZALMAN MORDECAI SHAPIRO was born May 12, 1920. The file revealed that he presently holds a "Q" clearance by the AEC and has traveled in the past to visit the United Kingdom AEC, the Swedish AEC, and the Canadian AEC. (S)(u)

The file contained a memorandum dated May 7, 1965, to HARRY A. WALSH, Director, Security and Property Management Division, New York from C. A. PALAZZOLO, Chief, Research Branch, Division of Security Headquarters, concerning SHAPIRO. This memorandum reflects that subject and the Nuclear Materials and Equipment Corporation have been negotiating with the Israeli AEC to establish a joint company in Israel to be known as the Israeli Numec Isotopes and Radiation Enterprises (SORAD) Limited. (S)(u)

An AEC inspection file contained an AEC inspection report dated July 2, 1964, of the Numec, Administration Building, and Uranium Plants, Apollo, Pa. This report states in part that "Numec is a sales agent for the Government of Israel through its Minister of Defense, Division of Supplies, 830 Third Avenue, New York 22, New York. (S)(u)

"In this connection Numec has an arrangement with the Israeli Atomic Energy Commission to do biological work in insect control; and assist in establishing facilities for the irradiation and preservation of citrus fruits. Numec has a proposal pending with the Israeli Government for the design, construction and operation of facilities for irradiation and preservation of foodstuffs in various parts of the world. This latter proposal, if approved, will result in Numec and the Israeli AEC sharing on a fifty-fifty basis the corporate facilities so constructed. Numec has a contract with the Israeli AEC for the general development of plutonium oxide as fuel elements in nuclear reactors. (S)(u)

"Numec has a contract with Chemical and Phosphates Limited, Post Office Box 1428, Haifa, Israel, for calcium-zirconium production. This contract also involves a joint program in food irradiation. (S)(u)

The inspection report also states that Numec has a contract with Japanese atomic firms and also contracts with the Australian Government to supply that government 330 plutonium-aluminum fuel elements. (S)(u)

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[REDACTED]

The inspection report further states that Numec actively participates with foreign companies and foreign Governments in the field of civil nuclear energy. Further, Numec performs a wide range of classified and unclassified work for the AEC under various prime contracts and purchase orders. (S)(u) *Para 1, 2 remains per DOE 4-16-85 6-6-85*

The report also stated that located in the Administration Building of Numec, Apollo, Pa., is the Numec Instruments and Controls Corporation (NUMINCO), a firm established to manufacture and market nuclear instruments and process control equipment. NUMINCO, according to this report, is owned by the Societe d'Applications Industrielles de la Physique, Paris, France, by Numec and by a group of private investors, each having about one-third interest. This commercial enterprise, according to this report, is completely divorced from Numec's AEC interests, either classified or unclassified. (S)(u)

#### VI. MISCELLANEOUS

On February 7, 1949, ZALMAN MORDECAI SHAPIRO executed a Personnel Security Questionnaire for the AEC on which he indicated that he was a member of the Independent Citizens Committee of the Arts, Sciences and Professions in 1946 - 47.

Independent Citizens Committee of the Arts, Sciences and Professions is characterized in the Appendix hereto.

(u)(S) In September, 1946, PG T-7 [REDACTED]

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(u)(S) It is noted that subject indicated on his PSQ, executed on February 7, 1949, that he resided in Apartment 3-F, 951 Brooks Lane, Baltimore, Md., from 1945 to 1948.

(u)(S) In September, 1947, PG T-8 [REDACTED]

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APPENDIX

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1

INDEPENDENT CITIZENS COMMITTEE  
OF THE ARTS, SCIENCES AND PROFESSION

The "Guide to Subversive Organizations and Publications," revised and published December 1, 1961, prepared and released by the Committee on Un-American Activities, U. S. House of Representatives, Washington, D. C., contains the following on page 84 concerning the Independent Citizens Committee of the Arts, Sciences, and Professions:

- "1. Cited as a Communist front.  
(Committee on Un-American Activities, House Report 1954 on the Scientific and Cultural Conference for World Peace arranged by the National Council of the Arts, Sciences, and Professions and held in New York City on March 25, 26, and 27, 1949, April 26, 1950, originally released April 19, 1949, p. 2; and House Report 378, on the Communist 'Peace' Offensive, April 25, 1951, originally released April 1, 1951, pp. 11 and 12.)"

APPENDIX

-13\*-

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In Reply, Please Refer to  
File No.

~~SECRET~~

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

Pittsburgh, Pennsylvania  
October 25, 1965

b3  
b7E

Title	DR. ZALMAN MORDECAI SHAPIRO
Character	REGISTRATION ACT - ISRAEL
Reference	Report of SA DONALD F. WISEMAN dated and captioned as above at Pittsburgh, Pa.

All sources (except any listed below) whose identities are concealed in referenced communication have furnished reliable information in the past.

~~SECRET~~



UNITED STATES GOVERNMENT

# Memorandum

TO : DIRECTOR, FBI [REDACTED]

DATE: 12/6/65

b3  
b7E

FROM : SAC, WFO [REDACTED] (RUC)

*JDR/jec*

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL  
(OO:PG)

Rerep dated 10/25/65, by SA DONALD F. WISEMAN  
at Pittsburgh.

Enclosed for the Bureau and Pittsburgh are 3 and 2  
copies, respectively, of an LHM setting forth the results of  
a review of the files of the Passport Office, U. S. Department  
of State (USDS), by IC THOMAS C. NORTON, Jr.

Copies of the photo appearing on the 1965 passport  
application will be forwarded to Pittsburgh by R/S when  
processed.

AGENCY *RAC State (RUC)*  
DATE FORW. *12-22-65*  
HOW FORW. *R/S*  
BY *EHM/bdw*

REC-22

117-2564-X6

[REDACTED]

RECEIVED

- 2 - Bureau (Encs. 2)
- 2 - Pittsburgh [REDACTED] (Encs. 2) (RM)
- 1 - WFO

TCN:sal  
(5)

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED

DATE 4-7-82 BY SP-1 GSK/RBG  
5668 SCDF/3-6-15

NAT. INT. SEC.

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b7E



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan





UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

In Reply, Please Refer to  
File No.

Washington, D.C. 20535

December 6, 1965

ZALMAN MORDECAI SHAPIRO  
REGISTRATION ACT-ISRAEL

The files of the Passport Office, United States Department of State (USDS), were reviewed on December 1, 1965, by a representative of the FBI and disclosed the following information:

On June 25, 1965, Zalman Mordecai Shapiro was issued passport F 753461 for proposed two to three weeks' travel to England, France, Italy, Sweden and Israel for the purpose of business. He indicated on the passport application, dated May 18, 1965, at Pittsburgh, Pennsylvania, that he would depart New York, New York, in the middle of June by air. He indicated that he would take another trip abroad within the next year.

This passport is valid for travel to all countries except Albania, Cuba and those portions of China, Korea and Viet-Nam under communist control. It will expire on June 24, 1968, and may be renewed for two years.

Shapiro stated that he was born on May 12, 1920, at Canton, Ohio. He listed his permanent residence as [redacted] Pittsburgh, Pennsylvania, and his occupation as chemist. He listed his father as Abraham Shapiro, born about 1886 in Poland or Russia and his mother as Minnie Pincr, born about 1895 in Poland or Russia. Both of his parents are United States citizens. b6  
b7c

He was last married on June 24, 1945, to Evelyn Greenberg, who was born at [redacted] on [redacted]. This marriage has not been terminated. In the event of death or accident, he requested that his wife be notified at his permanent residence. Shapiro

Shapiro was previously issued passport 754680 on August 12, 1955, for proposed three to four weeks travel to England, France, Switzerland, Italy, Belgium and Sweden for the purpose of business. He listed his address as [redacted] Pittsburgh, Pennsylvania, and his occupation as chemist.

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED

DATE 4-7-82 BY SP-1 GSK/IRBG  
5666 SLD/KR 3-6-86

117-2564-X6  
ENCLOSURE



ZALMAN MORDECAI SHAPIRO

In connection with the application, correspondence from the Westinghouse Electric Corporation indicated that Shapiro's trip was being made at the request of the Atomic Energy Commission in connection with the Westinghouse Electric Corporation's work in the field of atomic energy.

This passport was renewed on August 25, 1958. In a letter from Shapiro, in which he indicated that he was President of the Nuclear Material and Equipment Corporation, Apollo, Pennsylvania, he indicated that he would travel to Switzerland to attend the Geneva Conference, and to other European countries on business.

On February 2, 1960, he was issued passport 1871659 for proposed travel of one week to France and Italy for the purpose of business. He indicated that he would depart New York on February 3, 1960, by air. On April 4, 1963, this passport was renewed for travel abroad on business. He indicated that he would depart on "February 7."

The following description was taken from the 1965 passport application:

Height:  
Hair:  
Eyes:

Five feet nine inches  
Brown-grey  
Brown

This document contains neither  
recommendations nor conclusions of  
the FBI. It is the property of  
the FBI and is loaned to your agency;  
it and its contents are not to be  
distributed outside your agency.



**SECRET**

UNITED STATES GOVERNMENT

# Memorandum

TO : DIRECTOR, FBI [REDACTED]

DATE: 12/24/65

b3  
b7E

FROM : SAC, PITTSBURGH [REDACTED]

SUBJECT: Dr. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL  
(OO: PITTSBURGH)

DECLASSIFIED BY 5668SLD/KJ  
4-24-82

Rerep of SA DONALD F. WISEMAN, dated 10/25/65, at Pittsburgh; and WFO letter to the Bureau, dated 12/6/65.

Dr. ZALMAN MORDECAI SHAPIRO of [REDACTED] Pittsburgh, Pa., is employed as the President and General Manager of the Nuclear Materials and Equipment Corporation of Apollo, Pa. SHAPIRO was born 5/12/20 at Canton, Ohio. He is married and has three children.

b6  
b7C

SHAPIRO and the Nuclear Materials and Equipment Corporation have been negotiating with the Israeli AEC to establish a joint company in Israel to be known as the Israeli Numec Isotopes and Radiation Enterprises (ISORAD), Limited. Initially, this company was to engage in the irradiation of citrus fruit and for this purpose Cobalt 60 sources were to be imported from the United States. (X)(u)

SHAPIRO is also Chairman of Board of a company known as NUMEC which reportedly is a sales agent for the Government of Israel through its Minister of Defense, Division of Supplies, New York, New York. NUMEC has an arrangement with the Israeli Atomic Energy Commission to do biological work in insect control; and assist in establishing facilities for the irradiation and preservation of citrus fruits. NUMEC has a proposal pending with the Israeli Government for the design, construction, and operation of facilities for irradiation and preservation of foodstuffs in various parts of the world. This latter proposal, if approved, will result in NUMEC and the Israeli AEC sharing on a fifty-fifty basis the corporate facilities so constructed. (u)

- 9/1/1  
27
- (2) - Bureau (RM)
  - 1 - Pittsburgh
  - DFW:sms
  - (3)

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

117-2564-X7

DEC 58

Class. & Ext. By

Reason - FCIM II, 1-2.4.2

Date of Review

**SECRET**

Buy U.S. Savings



NAT. INT. SEC



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NUMEC has a contract with the Israeli AEC for the general development of plutonium oxide as fuel elements in nuclear reactors. (S)(u)

NUMEC has a contract with Chemical and Phosphates Limited, Post Office Box 1428, Haifa, Israel, for calcium-zirconium production. This contract also involves a joint program in food irradiation. (S)(u)

NUMEC has a contract with Japanese atomic firms and also contracts with the Australian Government to supply that government 330 Plutonium-aluminum fuel elements. (S)(u)

NUMEC actively participates with foreign companies and foreign Governments in the field of civil nuclear energy. Further, NUMEC performs a wide range of classified and unclassified work for the AEC under various prime contracts and purchase orders. (S)(u)

AEC, where SHAPIRO holds "Q" clearance, has been aware of the above and has apparently taken no action in this matter.

The Registration Section, Internal Security Division, United States Department of Justice, Washington, D. C., disclosed no record of registration for SHAPIRO, the Nuclear Materials and Equipment Corporation of Apollo, Pa., or company officers OSCAR S. GRAY or JACK R. NEWMAN.

SHAPIRO was issued a passport June 25, 1965, for the purpose of travel to England, France, Italy, Sweden, and Israel on business. He indicated he would depart New York, New York, during June, 1965, and contemplated making another trip abroad within the next year.

In view of the above, Bureau authority is requested to interview ZALMAN M. SHAPIRO, [redacted] eto to determine if a joint company, known as ISORAD, has in fact been established and to determine the exact nature and scope of SHAPIRO's activities as sales agent for a representative of the Israel Government, namely, the Minister of Defense, Division of Supplies, New York, New York. (S)(u)

b6  
b7C

Per D.O.E. letter  
4-16-85 + 6-6-85

~~SECRET~~



~~SECRET~~

1 - Mr. E.H. Mosshurg

b6  
b7C

Mr. J. Walter Yeagley  
Assistant Attorney General

January 7, 1966

Director, FBI

DR. ZALMAN M. SHAPIRO  
REGISTRATION ACT - ISRAEL

Reference is made to previous correspondence furnished to the Records Administration Office, the latest of which was a memorandum dated December 6, 1965, at Washington, D. C., concerning subject.

It is requested that this Bureau be advised whether the alleged activities of the captioned individual as set forth in referenced communications would require his registration within the provisions of the Foreign Agents Registration Act of 1938, as amended.

REC-1  117-2564-X7

2 - Pittsburgh

NOTE FOR SAC, PITTSBURGH:

Reurlet 12/24/65. Prior to authorizing an interview of subject in this matter the Department's opinion is being requested as to whether subject's activities, if proven, would require his registration. On receipt of the Department's reply, you will be advised. Class. & Ext. By SP-1 GSK/NB6

Reason - FCIM II, 1-2.4.2

Date of Review 1-7-86

EHM:gae (6)

NOTE:

EX-101  
We received information from the Atomic Energy Commission indicating that subject and the company he represents have been negotiating with the Israeli Atomic Energy Commission to establish a joint company in Israel. In this connection subject's company would participate by shipping Cobalt 60 from the U. S. to Israel. Subject's company also has a pending proposal with the Israeli Government to design, construct and operate facilities for the irradiation and preservation of foodstuffs in various parts of the world. Subject has not been interviewed but in view of the facts Department is being requested to advise whether the alleged activities would require subject's registration. Subject's activities may be within the exemptions of the Act and it is felt the Department's opinion should be obtained prior to interviewing subject.

MAILED 10

JAN 7 1966

COMM-FBI

MAIL ROOM ☐ TELETYPE UNIT ☐

~~SECRET~~

b3  
b7E



UNITED STATES GOVERNMENT

# Memorandum

TO : Mr. W. C. Sullivan

FROM : D. J. Brennan, Jr.

SUBJECT: UNKNOWN SUBJECTS;  
PROCESSING LOSS OF 61 KILOGRAMS OF URANIUM-235  
NUCLEAR MATERIALS AND ELECTRONICS CORP. (NUMEC),  
APOLLO, PENNSYLVANIA, ~~NUMEC~~  
ATOMIC ENERGY ACT

SUMMARY *Unclassified Per DOE  
Letter 4-16-85 + 6-6-85*

On 2/17/66, Mr. Howard C. Brown, Assistant General Manager, Atomic Energy Commission (AEC), outlined to Liaison AEC's findings with regard to apparent sloppy management of nuclear materials by NUMEC, an AEC subcontractor. Since April, 1965, AEC has made extensive internal technical checks at NUMEC and has reported the situation to the Joint Committee on Atomic Energy of the Congress. The Joint Committee was told by AEC on 2/14/66 that in the absence of evidence or suspicion of a violation of law, AEC had determined that inquiry by FBI was not then warranted. However, AEC has since decided it should make more penetrating checks into NUMEC's operations, including interviews with some present and former employees, but before doing so felt FBI should be consulted to see if it desires to assume investigation of the matter. Under the circumstances, it is not felt we should do so.

## BACKGROUND

According to Brown, NUMEC received 1012 kilograms of uranium-235 from AEC to process into fuel elements for nuclear reactors for space propulsion. This subcontract was completed 10/31/64. In April, 1965, an AEC inventory indicated a loss, fixed by later AEC check in November, 1965, at 61 kilograms, valued at \$764,000. Prior to this determination, AEC had many meetings and discussions with NUMEC officials and conducted extensive internal investigation. Relatively unproductive technical searches of NUMEC premises and waste disposal pits were also made. In addition, a survey of the plant's operations since 1957 revealed that NUMEC had had a total cumulative loss, on all AEC subcontracts, of 178 kilograms, all but 61 of which AEC considers properly accounted for by normal processing losses. While it cannot say unequivocally that theft or diversion of the 61 kilograms has not taken place, AEC believes that NUMEC consistently underestimated its processing losses and that the loss (61 kilograms) being charged to the latest subcontract actually represents an accumulation of losses over an 8-year period. However, because the NUMEC records system was not then so set up, it could not be determined when the various losses occurred or whether material provided for the latest

1-Mr. DeLoach  
1-Mr. Rosen  
1-Mr. Sullivan  
1-R. D. Cotter  
(A. R. Jones)

DATE: 2/18/66

1-Mr. Schutz  
1-Liaison  
1 - Mr. Fitzgerald

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Wick \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

*D.J. Brennan*  
*R.D. Cotter*  
*a/f*

*117-2564-X8*

*Fitzgerald*  
*Liaison*

JMF:jkm flm (8)

REC-79

17 MAR 4 1966

MCT

CONTINUED - OVER



Memorandum Brennan to Sullivan  
RE: UNKNOWN SUBJECTS;  
PROCESSING LOSS OF 61 KILOGRAMS OF URANIUM-235,  
NUCLEAR MATERIALS AND ELECTRONICS CORP. (NUMEC),  
APOLLO, PENNSYLVANIA, 10/31/65  
ATOMIC ENERGY ACT

subcontract was used, knowing or inadvertently, to offset losses on other contracts.

According to Brown there will be no financial loss to the Government as NUMEC has agreed to pay for the 61 kilograms. In addition, NUMEC now has a better system for controlling nuclear materials and improvement is also expected through NUMEC's hiring of a former AEC official, James Lovett, who worked on the AEC inspection of November, 1965. Brown commented incidentally that AEC is consulting with Justice for guidance regarding possible conflicts of interest in regard to NUMEC's hiring of Lovett.

OBSERVATIONS:

From AEC correspondence with the Joint Committee made available by Brown it is evident that the new inquiry contemplated by AEC at NUMEC is prompted by searching questions the Committee has been directing at AEC regarding controls exercised by AEC over nuclear materials. It is believed that this situation up to now has been rightfully treated by AEC as an administrative matter within its responsibility and there appears to be no basis for us to take any action unless and until AEC's inquiries develop more information indicative of a violation coming within our jurisdiction. AEC has assured that we will be immediately informed if such information is developed. Since the materials involved are Government property and thus any criminal activity later revealed conceivably would involve the Theft of Government Property statute as well as the Atomic Energy Act, this matter has been coordinated with the General Investigative Division.

RECOMMENDATION:

That Liaison orally advise AEC that under the present circumstances, we do not intend to assume any investigative responsibility in this matter but will rely on AEC to inform us of any further developments coming to their attention which would indicate a violation within our jurisdiction. Liaison will thereafter follow closely with AEC. This will be confirmed in writing. (TO AEC - NEW DRAFT should be advised)



117-2564-X8  
~~117-2564-X~~  
~~117-0-1447~~

BY LIAISON

REC-79

1 - Liaison  
1 - Mr. Jones

Date: March 1, 1966

To: Director  
Division of Security  
Atomic Energy Commission

From: John Edgar Hoover, Director

Subject: UNKNOWN SUBJECTS;  
PROCESSING LOSS OF 61 KILOGRAMS OF URANIUM-235,  
NUCLEAR MATERIALS AND ELECTRONICS CORPORATION,  
APOLLO, PENNSYLVANIA  
ATOMIC ENERGY ACT

Unsubscribed per 308 letter  
4-16-85 + 6-6-85

5-6-85  
ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-9-82 BY SP-1 GSK/REG

On February 17, 1966, Special Agent Joseph M. Fitzgerald of this Bureau conferred with Mr. Howard C. Brown of the Atomic Energy Commission (AEC) regarding captioned matter.

Mr. Brown advised there were indications that the Nuclear Materials and Electronics Corporation (NUMEC), an AEC subcontractor, was lax in the management of nuclear materials. He stated that since April, 1965, AEC has made extensive internal technical checks at NUMEC and has reported the situation to the Joint Committee on Atomic Energy of the Congress. The Joint Committee was told by AEC on February 14, 1966, that in the absence of evidence or suspicion of a violation of the law, AEC had determined that inquiry by the FBI was not then warranted.

According to Mr. Brown, NUMEC received 1012 kilograms of uranium-235 from AEC to process into fuel elements for nuclear reactors for space propulsion. This subcontract was completed on October 31, 1964. In April, 1965, an AEC inventory indicated a loss, fixed by a later AEC check in November of 1965, of 61 kilograms valued at \$764,000. Prior to this determination, AEC had many meetings and discussions with NUMEC officials and also conducted extensive internal investigation. Technical searches of NUMEC premises and waste disposal pits were also made. In addition, a survey of the plant's operations since 1957 revealed that NUMEC had a total cumulative loss on all AEC subcontracted

- Tolson \_\_\_\_\_
- DeLoach \_\_\_\_\_
- Mohr \_\_\_\_\_
- Wick \_\_\_\_\_
- Casper \_\_\_\_\_
- Callahan \_\_\_\_\_
- Conrad \_\_\_\_\_
- Felt \_\_\_\_\_
- Gale \_\_\_\_\_
- Rosen \_\_\_\_\_
- Sullivan \_\_\_\_\_
- Tavel \_\_\_\_\_
- Winter \_\_\_\_\_
- Tele. Room \_\_\_\_\_
- Holmes \_\_\_\_\_
- Gandy \_\_\_\_\_

ARJ:sal

55 MAR 15 1966

MAILED 19  
COMM-FBI

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SEE NOTE PAGE TWO.

100 to AG  
By Cat 4/22/76



**Director  
Division of Security  
Atomic Energy Commission**

of 178 kilograms, all but 61 of which AEC considers properly accounted for by normal processing losses. While it cannot say unequivocally that theft or diversion of the 61 kilograms has not taken place, AEC believes that NUMEC consistently underestimated its processing losses and that the loss of the 61 kilograms being charged to the latest subcontract actually represents an accumulation of losses over an eight-year period. Mr. Brown pointed out, however, that because the NUMEC records system was not then so set up, it could not be determined when the various losses occurred or whether material provided for the latest subcontract was used, knowingly or inadvertently, to offset losses on other contracts.

Mr. Brown pointed out that there will be no financial loss to the Government as NUMEC has agreed to pay for the 61 kilograms. In addition, NUMEC now has a better system for controlling nuclear materials and an improvement is also expected through NUMEC's hiring of a former AEC official. Mr. Brown advised, however, that AEC has decided it should make more penetrating checks into NUMEC's operations, including interviews with some of their former employees, but before doing so he felt that the FBI should be consulted to determine whether it desires to assume investigation of the matter.

This will confirm the information furnished orally to Mr. Brown by Special Agent Fitzgerald on February 25, 1966, to the effect that we have given full consideration to this matter and under the present circumstances, we do not intend to assume any investigative responsibility; however, it was requested that the AEC advise us of any further developments coming to its attention concerning this matter which indicate there has been a violation within our jurisdiction.

**1 - Mr. J. Walter Yeagley  
Assistant Attorney General**

**NOTE:** See memorandum from Mr. Brennan, to Mr. Sullivan dated 2/18/66, same caption, prepared by JMF:jkm, which approved this action.



~~SECRET~~

Mr. D. J. Brennan, Jr.

3/30/66

Joseph M. Fitzgerald

[redacted] ~~SECRET~~ (U)

INTERNAL SECURITY - ISRAEL

[redacted]

(S) It is also noted that Zalman Shapiro is the subject of a pending Bureau Registration Act investigation, and a Bureau interview with him is contemplated for the near future.

[redacted]

Supervisor E. H. Mossburg of the Nationalities Intelligence Section has been orally advised of the information furnished by Palazzolo.

ACTION:

This memorandum is being directed to the Nationalities Intelligence Section.

JMF:long (S)

- 1 - Mr. Catter (Mr. Mossburg)
- 1 - Yellow [redacted] (Zalman Shapiro)
- 1 - Lindsay
- 1 - Mr. Fitzgerald

117-2564-  
[redacted]  
NOT RECORDED  
191 APR 13 1966

ALL FBI INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 09-27-2017 BY [redacted]

APR 27 1966

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9-15-03 2003 0758  
CLASSIFIED BY AUC 6026 BCL/mjt/STG  
DECLASSIFIED ON 08-16-15 UNCLASSIFIED

Class. & Ext. By 9-9-82  
Reason - FCIM, 1-2.4.2  
Date of Review 5-20-86



SAC, Pittsburgh [redacted]

4/4/66

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Director, FBI [redacted]

1 - Mr. Mossburg

DR. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL

Rerep of SA Donald F. Wiseman dated 10/25/65 and  
reBulet to Assistant Attorney General J. Walter Yeagley  
dated 1/7/66.

Enclosed for your assistance are two copies of a  
letter dated March 23, 1966, received by the Bureau from the  
Department.

Review your file in captioned case to determine  
what additional investigation is warranted and to ascertain  
whether subject should be interviewed. Furnish your  
recommendations in this matter to the Bureau promptly.

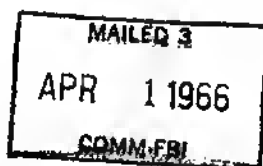
Enclosures - 2

EHM:sal  
(4)

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-7-82 BY SP-1 GSK/RB6

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56683LD/K8 3-6-85



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57 APR 14 1966

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1 - Mr. E.H. Mossburg

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FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/DIPLO)  
DATE 09-27-2017 BY: [redacted]  
FBI INFORMATION ONLY

4/11/66

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Declassify on: ~~TOP SECRET~~  
4-17-85

Airtel

To: SAC, Pittsburgh [redacted]

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From: Director, FBI [redacted]

DR. ZALMAN MORDECHAI SHAPIRO  
RA - ISRAEL

9-15-03 #03 R0758  
AUG 60 290 BCE (m-1)  
AS AMENDED

ReBulet 4/4/66.

On 3/29/66 the following information was furnished to the Bureau by the Atomic Energy Commission through liaison:

[Joseph Eyal, Scientific Attache, Israeli Embassy, Washington, D. C., was to visit subject on 3/31/66 at Apollo, Pennsylvania. AEC understood that they were to discuss the progress of contracts between Nuclear Materials and Electronics Corporation and the Israeli Government regarding the development of generators for Israel. AEC indicated it would appreciate being advised of any pertinent information obtained concerning Eyal's visit with subject. Inasmuch as AEC has a keen interest in subject and his company, the attention of WFO is directed to the report of Special Agent Donald F. Wiseman dated 10/25/65 at Pittsburgh in captioned matter and to WFO's file [redacted] (S)]

b3  
b7E

It is noted reBulet referred to the possible interview of subject in the future by the Pittsburgh Office. It would appear that if the Pittsburgh Office recommends an interview of subject, he could be questioned concerning his contact with Eyal. (S)

1 - WFO

1 - [redacted] (S)

EHM:gas  
(6)

Class. & Ext. by G-3  
Reason - FCIM II, 1-2.4.2  
Date of Review 4-9-82

25 APR 14 1966

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DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 04-03-2019 BY: [redacted]

55 APR 19 1966

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UNITED STATES GOVERNMENT

# Memorandum

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DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/DIPLO)  
DATE 08-17-2017 BY: [redacted]  
FBI INFORMATION ONLY

TO : Director, FBI [redacted]

DATE: 4/19/66

b6  
b7C

FROM : SAC, Pittsburgh [redacted] P

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL  
OO: Pittsburgh

4/17-85  
Classified By 66856/KJ  
Declassify on: OADR

b3  
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ReBulet to Pittsburgh, 4/4/66, and Buairtel to Pittsburgh, 4/11/66.

The Department pointed out in its letter of 3/23/66 that the subject and the Nuclear Materials and Equipment Corporation of Apollo, Pa., has attempted to establish a joint company in Israel. The Department noted that this information was insufficient in itself to establish the requisite agency relationship to bring the subject within the purview of the Foreign Agents Registration Act.

Referenced airtel pointed out that AEC understood JOSEPH EYAL, Scientific Attache for the Israeli Embassy, Washington, D. C., was to visit subject and discuss the progress of contracts between the subject and the Israeli government for the development of generators for Israel. (S) (U)

(U) [redacted] In view of the interest shown by AEC in this matter, Pittsburgh requests Bureau authority to interview subject to determine if a joint company, known as ISORAD, has in fact been established; and also to determine the exact nature and scope of subject's activities as sales agent for a representative of the Israeli government, namely, the Minister of Defense, Division of Supplies, New York, N. Y. [redacted]

Per Doc letter  
4-16-85  
b7E

- 2 - Bureau (RM)
- 1 - Washington Field [redacted] (Info) (RM)
- 1 - Pittsburgh

DFW/jep

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OTHERWISE



Class. & Ext. By SP-1 GSK/RBG  
Reason: FCIM II, 1-2.4.2  
Date of Review 4-19-86

~~SECRET~~

REC-100

117-2564-X11  
APR 20 1966

b3  
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DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [redacted]

b6  
b7C



~~SECRET~~

1 - Mr. E.H. Mossburg

SAC, Pittsburgh [redacted]

4/28/66

b3  
b7E

REC-125 117-2564-X11  
Director, FBI [redacted]

DR. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL

DECLASSIFIED BY 5668SLPIK2  
11-17-85

Reurlet 4/19/66. DE

Authority is granted for the Pittsburgh Office to interview the subject for the purpose of determining whether he is acting in the United States as an agent for the Israeli Government under the provisions of the Foreign Agents Registration Act of 1938, as amended. In view of the allegations received in this case and the Department's request for an investigation, it is not desired that subject be interviewed under any pretext. At the time of the interview [redacted]

b7E

Submit the results of your investigation in report form promptly. Upon receipt it will be forwarded to the Department with a request for the Department to advise whether captioned subject is required to register as an agent of a foreign government.

1 - WFO

KHM:gas  
(5)

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OTHERWISE

Class. & Ext. By SP-1 GSK/RBG  
Reason FCIM II, 1-2.4.2  
Date of Review 4-9-82

NOTE (4)

Our investigation was instituted based upon information received indicating that subject and his company had been negotiating with the Israeli Atomic Energy Commission to establish a joint company in Israel. By letter dated 3/23/66 the Department pointed out that information developed indicated the possibility that subject might be required to register as a foreign agent. Pittsburgh has completed its investigation and has requested authority to interview subject to develop information desired by the Department.

Per OOG  
Letter  
4-16-65  
6-6-85

- Tolson \_\_\_\_\_
- DeLoach \_\_\_\_\_
- Mohr \_\_\_\_\_
- Wick \_\_\_\_\_
- Casper \_\_\_\_\_
- Callahan \_\_\_\_\_
- Conrad \_\_\_\_\_
- Felt \_\_\_\_\_
- Gale \_\_\_\_\_
- Rosen \_\_\_\_\_
- Sullivan \_\_\_\_\_
- Tavel \_\_\_\_\_
- Trotter \_\_\_\_\_
- Tele. Room \_\_\_\_\_
- Holmes \_\_\_\_\_
- Gandy \_\_\_\_\_

53 MAY 3 1966

MAIL ROOM ☐ TELETYPE UNIT ☐

~~SECRET~~





In Reply, Please Refer to  
File No.

~~SECRET~~

UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/DIRLO)  
DATE 08-02-2017 BY:  

b6  
b7C

~~CONFIDENTIAL~~

Washington, D. C. 20535  
April 19, 1966

DR. ZALMAN MORDECAI SHAPIRO  
REGISTRATION ACT - ISRAEL

A confidential informant, who has furnished reliable  
information in the past, advised

b7D

(U)

(U)

(U)

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OTHERWISE

~~CONFIDENTIAL~~

Class. & Ext. by  
Reason - FCIM  
Date of Review

SP1 GSK/IRB6  
1242 243  
4-19-86  
4-7-82

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

117-2564-X12

~~SECRET~~

~~SECRET~~

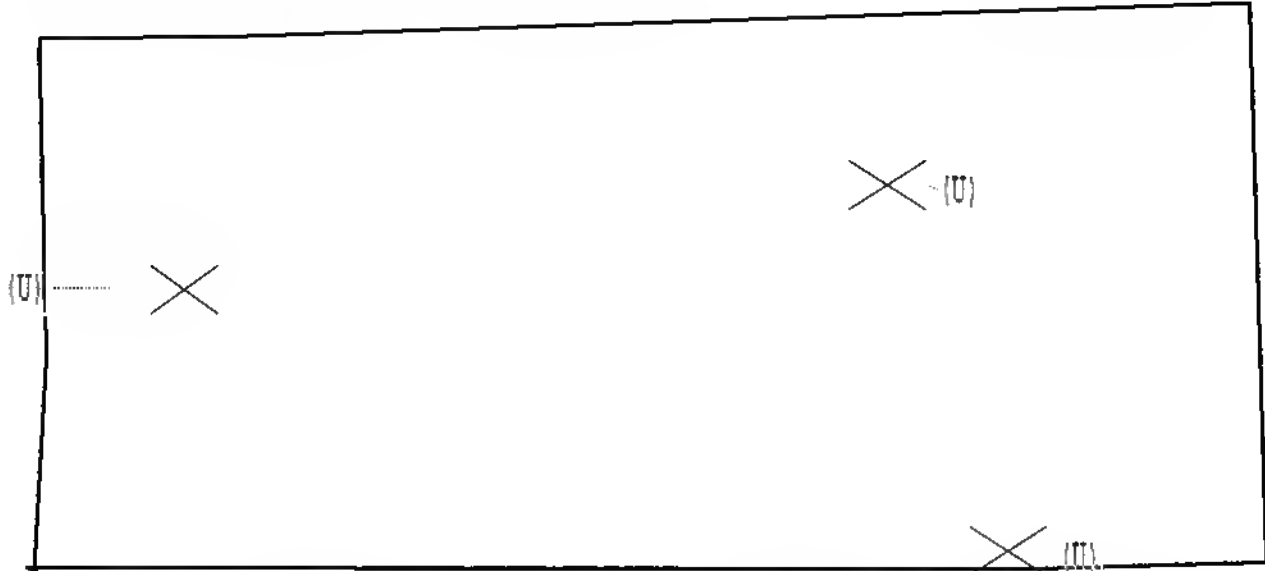


~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

~~CONFIDENTIAL~~

b7D



The "Diplomatic List" published by the United States Department of State under date of February, 1966, confirms the



~~(S)~~ (U)

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

- 2 -

~~SECRET~~

~~CONFIDENTIAL~~



**SECRET**

BY: [redacted]

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/DIPLO)  
DATE 08-02-2017 BY: [redacted]

FBI

Date: 4/19/66

Transmit the following in \_\_\_\_\_  
(Type in plaintext or code)Via AIRTEL \_\_\_\_\_  
(Priority)

~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE~~

TO: DIRECTOR, FBI [redacted]

FROM: SAC, WFO [redacted] (RUC)

DR. ZALMAN MORDECAI SHAPIRO  
RA - ISRAEL  
(OO:PG)

ReBuairtel dated 4/11/66.

Enclosed for the Bureau are eight copies of an  
LHM setting forth information furnished by [redacted]  
concerning [redacted]

Two copies are enclosed for PG. (RM)

WFO indices contain no additional information con-  
cerning subject. WFO will remain alert for additional  
information concerning this subject and advise the Bureau  
and PG if any is received.

ENCLOSURE

- ③ - Bureau (Enc. 8)  
2 - Pittsburgh [redacted] (Enc. 2) (RM) 5 APR 27 1966  
2 - WFO  
(1 - [redacted])

JVD:flm  
(7)AIRTEL

C. C. Wick

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. &amp; Ext. By

Reason - FCIM II, 1-2.4.2

Date of Review

Approved: \_\_\_\_\_  
Special Agent in Charge

Sent

M

Per

**SECRET**

Mr. Wick \_\_\_\_\_  
b6  
b7C  
Mr. [redacted]  
Mr. [redacted]  
Mr. [redacted]  
Mr. [redacted]  
Mr. [redacted]  
Miss [redacted]  
Miss [redacted]

#38758 8-19-03  
CLASSIFIED BY 60290 BCF/MLT/716  
DECLASSIFY ON: 25X 1,6  
AS ATTENDED

566856/42-4728  
11/2/83  
Classified by SP-9 elu/ada  
Declassify on: OADR  
Comp # 240,619

b3  
b7Eb3  
b7E



~~SECRET~~

[REDACTED]

b3  
b7E

The LHM is being classified "~~Confidential~~," to protect [REDACTED] an informant of continuing value whose future effectiveness could be jeopardized, [REDACTED]

[REDACTED] (S) (U)

~~SECRET~~



UNITED STATES

MENT

# Memorandum

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Wick \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

TO : Mr. D. J. Brennan, Jr.

DATE: 5/31/66

FROM : J. M. Fitzgerald

SUBJECT: UNKNOWN SUBJECTS;  
PROCESSING LOSS OF 61 KILOGRAMS OF URANIUM-235,  
NUCLEAR MATERIALS AND ELECTRONICS CORP. (NUMEC),  
APOLLO, PENNSYLVANIA  
ATOMIC ENERGY ACT

Liaison has been following with the Atomic Energy Commission (AEC) regarding the captioned matter which the Bureau declined to accept for investigation in February, 1966, in view of the lack of any indication of violation of a law within the Bureau's jurisdiction and because AEC had already made extensive internal checks. The situation appeared to involve sloppy management of nuclear materials by NUMEC, an AEC subcontractor. AEC had said that it felt inquiry by FBI was not warranted but before making more penetrative checks it felt FBI should be consulted to see if it desired to assume investigation.

Enclosed is a copy of a letter dated 5/18/66, from AEC to the Joint Committee on Atomic Energy. This was furnished by Mr. Paul Gaughran of AEC as a matter of information since it reports that additional investigative action by AEC has disclosed no evidence of theft or diversion of the nuclear materials.

## ACTION:

The memorandum and its enclosure are being directed to the Nationalities Intelligence Section.

Enc.

- 1 - Mr. Schutz
- 1 - Mr. Cotter  
(A. R. Jones)
- 1 - Liaison
- 1 - Mr. Fitzgerald

JMF:rab  
(5)

EX-103  
REC-82

117-2564-X13  
117-2564-X1  
1 JUL 5 1966  
ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-9-82 BY SP-1 GSK/RBG  
217,822 5668 SLD/KJ 3-6-85

361  
5668 SLD/KJ 3-6-85



UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

## Copy to:

Report of: DONALD F. WISEMAN  
Date: 6/21/66

Office: PITTSBURGH, PA.

Field Office File #

Bureau File #

b3  
b7E

Title: DR. ZALMAN MORDECAI SHAPIRO

Character: REGISTRATION ACT - ISRAEL

## Synopsis:

Subject interviewed 6/15/66 and advised that Israel Numec Isotopes and Radiation Enterprises (ISORAD), Ltd., was formed approximately one year ago by Nuclear Materials and Equipment Corporation (NUMEC) of Apollo, Pa., and the Israeli Government. Formation of company on partnership basis; each holding 50% of stock and each having four members on Board of Directors. Purpose of formation of ISORAD was to conduct research involving irradiation of agricultural products. Neither NUMEC nor SHAPIRO has registered with Registration Section, U. S. Department of Justice, Washington, D. C., considering NUMEC's business association with Israeli Government as bona fide business venture.

- P\* -

## DETAILS:

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-9-82 BY SP-1 GSK/RBG  
5668SLD/KJ 3-7-85



## FEDERAL BUREAU OF INVESTIGATION

b6  
b7C

1

Date 6/21/66

Dr. ZALMAN MORDECAI SHAPIRO of   Pittsburgh, Pa., was advised by SA DONALD F. WISEMAN that he did not have to make a statement, and that any statements that he made must be voluntary and could be used against him in a court of law. He was also advised that he had the opportunity to consult with an attorney prior to making any statements.

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b7C

Dr. SHAPIRO advised that he was born May 12, 1920, at Canton, Ohio, and furnished the following information:

He is the President of Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pa. Approximately one year ago his company and the Government of Israel formed a company known as the Israel Numec Isotopes and Radiation Enterprises (ISORAD), Limited, on a partnership basis. NUMEC contributed one-third equity value and obtained 50% of the stock in ISORAD, and the Government of Israel owned the other 50% of the outstanding stock. The Board of Directors of ISORAD consisted of eight members, including four individuals appointed by NUMEC and four members appointed by the Israeli Government. Dr. SHAPIRO currently serves as Chairman of the Board of Directors of ISORAD. The other three members of the Board appointed by NUMEC and who are presently serving on the Board, are Pittsburgh area businessmen; namely, LEON TALK, President of a Pittsburgh re-development center; BENJAMIN ROSEN, prominent Pittsburgh realtor, and PHILLIP TOWERS, past President of Western Pennsylvania Power Company who presently serves as Assistant Chairman of ISORAD.

The four Board members representing the Israeli Government occupy responsible positions in Israel, including the head of the Israel Atomic Energy Commission, head of the Research Branch of the Israel Atomic Energy Commission, and head of the Citrus Board of the Israeli Government, as well as a prominent Israeli banker. The last ISORAD Board meeting was held during October, 1965, and was attended by all the American Board members.

On 6/15/66 at Pittsburgh, Pa. File #  

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by SAs JOHN E. McCURRY and DONALD F. WISEMAN/jep Date dictated 6/21/66

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Lengthy negotiations were undertaken by NUMEC with the Government of Israel for the purpose of organizing a company to undertake research in the field of atomic radiation. The radiation research was initiated with the hope that spoilage of citrus fruits in storage could be reduced by eradicating the bacteria which causes spoilage, and that irradiation would eliminate the transportation of live larvae of the Mediterranean fruit fly.

In addition to the citrus irradiation project, ISORAD is now engaged in research projects involving the irradiation of other agricultural products.

Prior to and subsequent to the formation of ISORAD, Dr. SHAPIRO and representatives of NUMEC discussed their plans relative to the organization of ISORAD with the United States Atomic Energy Commission, the Security Division of the Atomic Energy Commission, and with an individual of the United States Embassy in Jerusalem, believed to be the United States Ambassador. Subsequent to the formation of ISORAD, news media in the United States were furnished details of the organization and plans of ISORAD.

As a result of his association with ISORAD, Dr. SHAPIRO has had business association with JOSEPH EYAL, Science Attache, Embassy of Israel, Washington, D. C., and the Purchasing Commission of the Israeli Government in New York City. In this connection, NUMEC has sold its manufactured products to the Government of Israel after securing a license from the Export Control Division of the United States Department of Commerce.

Dr. SHAPIRO has made every effort to comply with the laws of the United States in connection with his business venture with the Israeli Government. He stated that neither he nor NUMEC has registered with the Registration Section of the United States Department of Justice, Washington, D. C., considering NUMEC's business association with the Israeli Government as a bona fide business venture. He stated that, in his opinion, he has never operated or served as an agent of the Israeli Government or any other government. His records of shipments with the Department of Commerce are open to inspection. He considered his company's association





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with the Israeli Government and ISORAD as a bona fide business venture for the sole purpose of making a profit for NUMEC. His company prior to the formation of ISORAD had unsuccessfully attempted to establish business ventures with Spain and Germany.

He stated that he desired to immediately review the statutes concerning the Registration Act of 1948 for the purpose of determining if he or his company were violating the law in any manner whatsoever. He pointed out that he had never considered the possibility that he or his company were violating the law.



~~SECRET~~

1 - Mr. Mossburg

b6  
b7C

Mr. J. Walter Yeagley  
Assistant Attorney General

July 5, 1966

Director, FBI

EX-113, REC-139 117-2564-X14  
DR. ZALMAN MORDECAI SHAPIRO  
REGISTRATION ACT - ISRAEL

Reference is made to communications of this Bureau previously furnished to you and the Records Administration Office, the latest of which was furnished to you dated April 19, 1966, relating to the subject.

Enclosed for your assistance is a copy of the report of Special Agent Donald F. Wiseman dated June 21, 1966, at Pittsburgh, Pennsylvania, which contains the results of an interview of the subject on June 15, 1966.

It is requested that we be advised whether the activities of subject and his company referred to in communications previously furnished to you and in the attached report require subject's registration within the provisions of the Foreign Agents Registration Act of 1936, as amended; and, if so, whether your Division will seek subject's registration.

Enclosure

Class. & Ext. By SP-1 GJK/IRB  
Reason - FCIM II, 1-2.4.2  
Date of Review 7-5-86

1 - Pittsburgh

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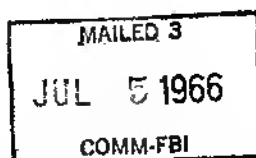
EHM:sem (5)

NOTE:

We received information from AEC that subject and his company had negotiated with the Israeli Atomic Energy Commission to establish a joint company which would operate in the U.S. and Israel. We have completed our investigation and interviewed the subject who has admitted forming the company as alleged. We are presenting the matter to the Department to determine if this activity requires subject's registration.

12/17/83 SP-4 elw/jalm  
Comp # 240,619

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Wick \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
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Sullivan \_\_\_\_\_  
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Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_



MAIL ROOM ☐ TELETYPE UNIT ☐

~~SECRET~~

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b7E



~~SECRET~~

1 - Mr. Mossburg  
1 - Mr. Jones

Mr. J. Walter Yeagley  
Assistant Attorney General  
Director, FBI

November 14, 1966

EX-112

REC-21

117-2564-X20

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MONTHLY REPORT TO THE JOINT  
CONGRESSIONAL COMMITTEE ON  
ATOMIC ENERGY

Class. & Ext. By SP/GX/RBG  
Reason - FCIM II, 1-2.4.2  
Date of Review 11/14/86  
4-9-82

DECLASSIFIED BY 5668 SLD/KR  
ON 4-17-85

Reference is made to your letter dated November 9, 1966, in which you referred to the proposed letter from the Atomic Energy Commission (AEC) to the Joint Congressional Committee on Atomic Energy which sets forth your opinion concerning the case involving Dr. Zalman Mordecai Shapiro and Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pennsylvania, wherein you advised that based on a review of the reported activities, neither Dr. Shapiro nor NUMEC is an agent of a foreign principal within the meaning of the Foreign Agents Registration Act, as amended, and so neither is required to register. The proposed AEC letter points out that it has asked the FBI to request the Department of Justice to advise as to whether its determination concerning the susceptibility of Shapiro and NUMEC to register applies also to certain additional reported activities relating to countries other than Israel, including France, Sweden, Italy, Japan, Canada, Australia, Belgium and Germany. You asked for our observations concerning the proposed letter.

With respect to this, you are referred to AEC letter dated November 3, 1966, enclosing a summary of the foreign business connections of NUMEC which was furnished to you on November 8, 1966. Our investigation concerning this case is completed and no further investigation is contemplated in the absence of a specific request from you.

We have no further comments to make with respect to the above case and it is being left to the discretion of the Internal Security Division whether information pertaining to this case, as set forth in the proposed letter, be furnished to the Joint Congressional Committee on Atomic Energy.

Pursuant to your request, this letter is being delivered to Mr. John M. Davitt, Chief, Criminal Section, Department of Justice, Room 518, Federal Triangle Building, 315 9th Street, Northwest, Washington, D. C.

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Wick \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
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Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
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Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

ABJ:ngp:as (5)

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~~SECRET~~

SEE NOTE PAGE TWO

b3  
b7E



~~SECRET~~

Mr. J. Walter Yeagley

NOTE:

(S) (u) Information was received from AEC that subject and his company had negotiated with the Israeli Atomic Energy Commission to establish a joint company which would operate in U. S. and Israel. We instituted an investigation to determine whether subject and his company should register under the Foreign Agents Registration Act and the matter was presented to the Department for a determination as to whether subject and his company should register. The Department said no and the Department's opinion was furnished to AEC. [AEC subsequently furnished us information indicating subject's company was also engaged in business dealings abroad with other foreign countries.] However, facts failed to indicate any violation within our jurisdiction and data was referred to the Department with the statement that we contemplated conducting no additional investigation in this case in the absence of a request from the Department. ~~u~~

*See DOE letter  
4-16-85  
6-6-85*

~~SECRET~~



~~CONFIDENTIAL~~

UNITED STATES GOVERNMENT

## Memorandum

TO : Mr. D. J. Brennan, Jr.

DATE: February 28, 1968

FROM : S. J. Papich

1 - Mr. Cotter  
 1 - Mr. Fitzgerald  
 1 - Liaison  
 1 - Mr. Papich

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
 NUCLEAR MATERIALS AND EQUIPMENT CORPORATION (NUMEC)  
 APOLLO, PENNSYLVANIA  
 ATOMIC ENERGY ACT

Classified by

Declassify on

OADR

In 1965 and 1966, we conducted investigation of Shapiro under the Registration Act character. In February, 1966, the Atomic Energy Commission (AEC) contacted the Bureau concerning the alleged loss of 61 kilograms of U-235 from NUMEC. AEC was interested in having the Bureau conduct an investigation. We declined to conduct the investigation since the information presented to us indicated the loss of the U-235 resulted from faulty administrative and recording practices at NUMEC.

ALL INFORMATION CONTAINED  
 HEREIN IS UNCLASSIFIED  
 EXCEPT WHERE SHOWN  
 OTHERWISE

Class. & Ext. By 38-1 65K/IRB6  
 Reason - FCIM II, 1-2.4.2 243  
 Date of Review 12-28-88 4-9-82  
 017,822

SJP:clb  
 (5)

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MCT-47

REC

REC-100

3 MAR 13 1968

DECLASSIFICATION AUTHORITY DERIVED FROM:

FBI AUTOMATIC DECLASSIFICATION GUIDE

DATE 03-29-2019

BY:

51 MAR 20 1968

~~CONFIDENTIAL~~

8/19/03

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 AS AMENDED

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b7C



~~CONFIDENTIAL~~

Memorandum S. J. Papich to Mr. D. J. Brennan, Jr.  
RE: DR. ZALMAN MORDECAI SHAPIRO  
NUCLEAR MATERIALS AND EQUIPMENT CORPORATION (NUMEC)

[REDACTED]

[REDACTED] advised that CIA definitely was not making any requests for investigation at this time. He stated that he would be conferring with top officials in CIA. (S) (U)

Although CIA may be engaged in some extensive speculation, it has a responsibility for being concerned

[REDACTED]

The White House, of course, is vitally interested in anything dealing with proliferation of atomic weapons. (S) (U)

ACTION:

(U) The above is being directed to the attention of the Nationalities Intelligence Section primarily for alert purposes bearing in mind that we may be hearing from CIA and/or AEC concerning this matter. (S)

*[Handwritten signature]*

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVES FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1)  
DATE 09-11-2008

UNITED STATES GOVERNMENT

# Memorandum

TO : Mr. D. J. Brennan

1 - Mr. Cotter  
1 - Mr. Fitzgerald

FROM : S. J. Papich

DATE: 3/12/68

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
NUCLEAR MATERIALS AND EQUIPMENT CORPORATION (NUMEC)  
APOLLO, PENNSYLVANIA  
ATOMIC ENERGY ACT

Classified by 4-16-85  
Declassify on: OADR

Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

Reference is made to my memorandum dated February 28, 1968. On March 11, 1968, Supervisors Wacks and Papich met with representatives of Central Intelligence Agency (CIA) and Atomic Energy Commission (AEC).

The Bureau representatives essentially served as observers in order to protect Bureau interest.

It should be noted that CIA's concern is largely predicated

## ACTION:

For information. The above is being directed to the attention of the Nationalities Intelligence Section. Liaison will follow developments with CIA.

SJP:djf  
(6)

Class. & Ext. By SP-6SK/RB6  
Reason: 25X(1)-2.4.2  
Date of Review 3-12-82

~~CONFIDENTIAL~~



~~SECRET~~

Memorandum

b3

TO : Mr. W. C. Sullivan

FROM : D. J. Brennan, Jr.

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
NUCLEAR MATERIALS AND EQUIPMENT CORPORATION (NUMEC)  
APOLLO, PENNSYLVANIA  
ATOMIC ENERGY ACT

DATE: 4/3/68

Classified by 61851/MS  
Declassify on: OADR

Corporation  
Director  
Chief  
Deputy  
Gale  
Rosen  
Sullivan  
Tavel  
Trotter  
Tele. Room  
Holmes  
Gandy

On 4/3/68 [redacted] Central Intelligence Agency (CIA), confidentially furnished the enclosed copy of a letter dated 4/2/68 sent by Richard Helms, Director, CIA, to the Attorney General. In his communication Helms [redacted] FBI be called upon to initiate an investigation [redacted]

b3

[redacted] has furnished the following background concerning this matter. (S) (U)

The Nuclear Materials and Equipment Corporation of Apollo, Pennsylvania, is one of the principal processors of nuclear materials which includes U 235. In line with established procedures the Atomic Energy Commission (AEC) periodically makes physical inventories of all firms dealing with such materials. In the Spring of 1965 a quantity of U 235 was unaccounted for at the aforementioned firm. [redacted]

b3

Enclosure  
SJP:djf/clb (8)

- 1 - Mr. DeLoach
- 1 - Mr. Sullivan
- 1 - Mr. Trotter
- 1 - Mr. Wacks

- 1 - Mr. Fitzgerald
- 1 - Liaison
- 1 - Mr. Papich

CONTINUED - OVER

117-2564-2X

55 APR 17 1968

ENCLOSURE

~~SECRET~~

ALL FBI INFORMATION CONTAINED  
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DATE 08-02-2017 BY [redacted]

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Class. & Ext. By SP-16SK/RB6  
Reason - FCIM II, 1-2.4.2  
Date of Review 1-5-88  
49-82



~~SECRET~~

Brennan to Papich

RE: DR. ZALMAN MORDECAI SHAPIRO

NUCLEAR MATERIALS AND EQUIPMENT CORPORATION (NUMEC)

[redacted] explained that Helms communicated with the Attorney General because [redacted] He personally consulted with the Attorney General, bearing in mind that the Attorney General might find it necessary to confer with the White House. [redacted] stated that Helms did not want to leave the Bureau in a position to move on this matter until some authority could originate at a very high level. At this point no request has been levied upon the Bureau. (U) (S)

With regard to the language used by CIA in the last paragraph of Helms' letter, [redacted]

(U) [redacted] was intended to induce the Attorney General to give FBI authority to utilize all available [redacted] techniques if it were necessary. (S)

ACTION:

If approved, no action will be taken by this Bureau pending the receipt of a communication from the Attorney General [redacted] or CIA. (S)

*Re-*  
*D*  
*W.C.S.*  
*72C*  
*G.K.L.*  
*H*  
*Ward*  
*my*  
*for*

~~SECRET~~



~~CONFIDENTIAL~~  
~~SECRET~~DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-13-2009~~CONFIDENTIAL~~

Date of Mail

5/6/68

Has been removed and placed in the Special File Room of Records Branch.

~~(S)~~~~(X)~~(U)#03R0758 AD660290 BCE/ml + #16  
9-15-03Classified by  
Declassify on:4-17-85  
56685LD/KO  
OADR

See File 66-2554-7530 for authority.

*Dr. Zelman Mordchai*  
*Shapiro*

Subject

JUNE MAIL

Removed By

9. 1. 1968

File Number

117-2564-2Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM II, 1-2.4.2 2.3  
Date of Review 5-6-88  
217,822  
4-16-82~~CONFIDENTIAL~~  
~~SECRET~~  
~~CONFIDENTIAL~~



~~SECRET~~DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-13-2009~~CONFIDENTIAL~~

Date of Mail

5/15/68

Has been removed and placed in the Special File Room of Records Branch.

~~#03R0758~~~~AUC 60290 BCE/mlt/716~~~~9-15-03~~

See File 66-2554-7530 for authority.

*Mr. Zalman Mordecai  
Shapiro*

Subject

JUNE MAIL

99 JUN 62 1968

Class. &amp; Ext. By

Reason - FCIM II, 1-2.4.2

Date of Review

~~3P-165KIRBG~~~~2/3~~~~5-15-88~~~~217,822~~ ~~4-16-82~~

Removed By

File Number

117-2564-3X1

Classified by

Declassify on

~~5068507~~~~OR~~

Permanent Serial Charge Out

~~4-17-85~~~~SECRET~~ ~~CONFIDENTIAL~~b3  
b7E



DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-02-2017 BY: [REDACTED]

~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1)  
DATE 09-11-2008

b6  
b7C

FBI

Date: 5/29/68

Transmit the following in \_\_\_\_\_

(Type in plaintext or code)

Via AIRTEL

(Priority)

To: Director, FBI [REDACTED]

From: SAC, Pittsburgh [REDACTED] P

DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL; AEA

Classified by ~~SP-1 GSK/RBG~~  
Declassify on: OADR

ReBuairtel to Pittsburgh dated 5/28/68.

Pittsburgh has an established source [REDACTED]

can be obtained either through established Bureau procedures relating to issuance of a subpoena or on a personal and strictly confidential basis. In either event, full security is assured.

The Bureau is requested to advise which procedure is desired in this instance in view of [REDACTED] in instant case.

Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM 11, 1-2.4.2  
Date of Review 5-29-82

- 3 - Bureau (RM)  
1 - Pittsburgh

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
(4) EXCEPT WHERE SHOWN  
OTHERWISE

C. C. Bishop

REC 8

2 MAY 31 1968

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 4-9-82 BY SP-1 GSK/RBG

Approved: \_\_\_\_\_

Special Agent in Charge

~~CONFIDENTIAL~~

M

Per \_\_\_\_\_

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DECLASSIFIED COPY FILED IN



~~CONFIDENTIAL~~

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-02-2017 BY: [redacted]

b6  
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SAC, Pittsburgh [redacted]

6/6/68

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REC 8

Director, FBI (117-2564)

1 - Mr. Wacks

DR. ZALMAN MORDECAI SHAPIRO  
(U) ~~IS - ISRAEL~~ (S)  
ATOMIC ENERGY ACT

Classified by ~~SP-16SK/RBG~~  
Declassify on: OADR

4-11-95

Reurairtel 5/29/68.

Provided full security assured authority  
granted [redacted]

b7D

No grand jury subpoena  
is being used in this instance in view of the sensitive  
nature of this investigation.

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

JFW:djf  
(4)

Class. & Ext. By ~~SP-16SK/RBG~~  
Reason - NORM II, 1-2.2  
Date of Review ~~6-16-82~~  
217,622

NOTE:

Subject is head of Nuclear Materials and Equipment Corporation, Apollo, Pennsylvania, which processes U-235. In the past he has been in contact with Israeli Government officials, particularly those in the Israeli Atomic Energy Commission, and, in fact, in 1965 formed a joint company in Israel with prominent officials of the Israeli Atomic Energy Commission for the purpose of irradiation of fruits and vegetables. At the request of the Attorney General we have instituted investigation to determine the nature and extent of subject's relationship with the Government of Israel with the purpose in mind of determining whether the subject is acting as an agent for the Israeli Government. (S) (U)

Pittsburgh has advised that full security is assured  
with respect to [redacted]

b7D

MAILED 27

JUN 6 - 1968

COMM-FBI

~~CONFIDENTIAL~~

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 11-18-83 BY SP-16SK/RBG

MAIL ROOM ☒ TELETYPE UNIT ☐





~~SECRET~~

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
Pittsburgh, Pennsylvania

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In Reply, Please Refer to  
File No.

May 29, 1968

DR. ZALMAN MORDECAI SHAPIRO

#mc3R0758

8-19-03

6086 DE/mj/HB

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AS AMENDED

Investigation was instituted at the request of the Attorney General to establish the nature and extent of Zalman Mordecai Shapiro's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States. (U)

On May 24, 1968, a source, who has furnished reliable information in the past, advised that Shapiro was born in 1920 and is married. He completed his formal education in 1948 and holds a B.A., M.A. and Ph.D. degree from Johns Hopkins University. He was a Research Associate at Johns Hopkins, 1942 - 1946. In 1948, he was employed by Westinghouse Electric Corporation and continued with that organization until 1956. During his employment with Westinghouse, he was Supervisor of Zirconium Process Development; Manager, Physical Chemistry and Chemical Control; Manager, Chemical Metallurgy and Uranium Oxide Development; and Manager, Reactor Design, P.W.R. Core 2. Shapiro holds four patents on pure metals production and has seventeen patent disclosures pending. He is a member of the American Chemical Society and is Chief Executive Officer. He is also a member of A.A.A.S., A.S.M., A.S.M.E., and A.I.M.E. Life insurance in the amount of \$150,000 is carried on his life for the benefit of his business. He is Chairman of the Board of Numec Instrument and Controls Corporation, affiliate, Appollo, Pa.; and President of Nuclear Decontamination Corporation.

367 VET/AG

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

8/25/82

DECLASSIFIED + 10-85

~~SECRET~~

GROUP I  
Excluded from automatic  
downgrading and  
declassification

Comp # 204,451

SP-4 [Signature]  
12/3  
5/29/88  
7/15/81

ENCLOSURE



~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

On May 24, 1968, Mrs. Jean Rodriguez, Receptionist, Credit Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised that her records show that Dr. Zalman M. Shapiro and wife, Evelyn, have resided at [redacted] Pittsburgh 17, Pa., and that Shapiro has been employed as the President of the Nuclear Materials Corporation, Warren and North 7th Avenues, Apollo, Pa., since 1956. She advised that her records further show that Shapiro was born in 1920, has four dependents, owns his home, and maintains a satisfactory credit rating with that bureau. Records indicate that the following business concerns have recently inquired concerning Shapiro's credit standing with that bureau: Commercial Bank and Trust Company, April 9, 1968; Gulf Oil Company, August, 1967; Maxine's Women's Dress Shop, October, 1966; and Peck and Peck Company, August, 1966.

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On May 23, 1968, records of the Bureau of Motor Vehicles, Commonwealth of Pennsylvania, Harrisburg, Pa., revealed that two automobiles are currently registered to Zalman Shapiro of [redacted] Pittsburgh, Pa., a Ford sedan, motor number 8H34F117273, motor vehicle registration number 22171H, and a Buick sedan, motor number 484695H247222, motor vehicle registration number 22170H.

On May 24, 1968, above source advised that on April 14, 1967, stockholders of Nuclear Materials and Equipment Corporation (NUMEC) approved the company's acquisition by Atlantic-Richfield Company (Incorporated), Philadelphia, Pa. The acquisition by Atlantic-Richfield Company involved the exchange of .255 of a share of Atlantic-Richfield common stock for each NUMEC share outstanding. On April 17, 1967, the acquisition was consummated and on the same date, by charter amendment, the name of NUMEC was changed to N. M. E. Liquidating Corporation, Apollo, Pa. This liquidating corporation was formed for the purpose of meeting the outstanding obligations of NUMEC. Further, during 1967, a new Delaware corporation known as NUMEC was chartered to carry on the activities of the old Pennsylvania NUMEC. This new Delaware corporation will operate as a direct and wholly-owned subsidiary of Atlantic-Richfield Company (Incorporated), Philadelphia, Pa. It was believed that NUMEC under predecessor's control, sustained heavy financial and operating losses.

- 2 -

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DR. ZALMAN MORDECAI SHAPIRO

Source went on to advise that Dr. Frederick Forscher, Vice President, and Jack R. Newman, Secretary of NUMEC, both recently resigned.

On August 15, 1967, NUMEC established additional branch operations at Karthaus (Quehanna), Pa. This is a new plant, according to source, known as the Nuclear Radiation Process and Reactor Center, whose activities are currently being managed by Marty Stein and seven additional employees.

Source advised that as of April 17, 1968, no changes had occurred in the management of NUMEC (Delaware) and no information regarding NUMEC's current financial status was known.

The Atlantic-Richfield Company was incorporated in Pennsylvania on April 29, 1870, and acquired property of the Atlantic Oil Storage Company. For a complex network of subsidiary companies and divisions, the Atlantic-Richfield Company develops oil and gas lands and leases and deals in all phases of the purchase, sale, transportation and refining of crude oil. This company is known world-wide as a leader in its industry and continues its activities on both a foreign and domestic basis. Source advised that inter-company relations between NUMEC and Atlantic-Richfield Company have not as yet been defined.

Source advised that related companies include the following:

NUMEC Instrument and Controls Corporation (NUMINCO), 609 Warren Avenue, Apollo, Pa. This company is a Pennsylvania corporation chartered in October, 1961, having authorized capital consisting of 37,500 shares of preferred stock at \$4 per share, and 200,000 shares of common stock, no par value. NUMINCO is active as a marketing agent and sales representative for NUMEC.

Nuclear Decontaminating Corporation, North Warren, Apollo, Pa., shares facilities with NUMINCO. This company is a Pennsylvania corporation chartered June 23, 1959, having authorized capital consisting of 500 shares of stock at \$1 par value. Nuclear Decontaminating Corporation is engaged

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DR. ZALMAN MORDECAI SHAPIRO

in decontamination and laundering of clothing, equipment and other materials which come into contact with radioactivity. Inter-company relations with NUMEC are confined to regular service and merchandise transactions on regular terms.

NUMEC (Delaware) now has branch activity at Lewiston, N. Y. The branch is located at 397 Pletcher Road, Model City, N.Y., although they utilize a mailing address of P.O. Box 306, Lewiston, N. Y. At that point, Niagara Division manufactures boron isotopes for the Atomic Energy Commission. The company operating as contractor performs work on cost-plus fee basis for the Government. The existing plant had been inactive for approximately four years and NUMEC prepared the plant for operation early in 1965. The company utilizes several cinder block buildings. Eventually, this company will have approximately 70 employees at Lewiston. Source advised that James C. McDiarmid is branch officer of this plant.

Source advised that NUMEC was incorporated in Pennsylvania on December 31, 1956, and is located at Apollo, Pa., 33 miles northeast of Pittsburgh. The plant contains a bridge crane and railway spur and comprises about 55,000 square feet of laboratory and production area. The company also occupies a modern 25,000 square foot facility in Parks Township, Pa., and is fully equipped for handling work on intensely radioactive materials. It is located on a 58 acre site which is available for expansion.

Source advised that at Parks Township, location of the Advance Materials Center, two additional structures have recently been completed to house the plutonium facilities and reactive metal fabrication facility, including a new 7,500 square foot building. An 8,000 square foot laundry building located in Apollo is occupied by Nuclear Decontamination Corporation, which is owned jointly by NUMEC and a large Pittsburgh industrial laundry concern. This company engages in rental and laundering of work clothing used in radioactive areas.

- 4 -

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DR. ZALMAN MORDECAI SHAPIRO

Source advised that the functions and services of NUMEC (Delaware), Apollo, Pa., are as follows:

**Products:** Produces, melts, fabricates and recovers a variety of special materials which are used primarily, although not exclusively, in the nuclear power industry. These materials include particularly the metals, alloys and compounds required for nuclear fuel and control purposes. Not only are materials manufactured, but are also used in the production and testing of materials and other special services:

**Fuel Materials:** Manufactured items include alloys such as uranium, zirconium, uranium-cadmium and uranium-aluminum. In addition, prepares special uranium oxides of the proper size and other physical characteristics required for the manufacture of aluminum and stainless steel dispersion elements. Also produces thorium and its alloys, manufactures plutonium fuel alloys. Company not only prepares raw materials, alloys and compounds, but also machines them and pelletizes them into required sizes and shapes.

**Neutron and Radioisotopic Heat Sources:** Used for start-up of reactors and other industrial purposes (such as oil well logging).

**Control Materials:** The company manufactures and fabricates into finished control rods hafnium, cadmium-silver, copper-boron carbide and europium.

**Specialized Equipment:** Also manufactures specialized equipment used in the production and testing of materials, such as cathodic vacuum etchers; arc-melting vacuum, and special atmosphere furnaces; high-pressure inert gas purification units; high-vacuum valves; inert gas welding chambers and other specialized machinery and equipment.

**Other Special Services:** Derives revenues from chemical, analytical and metallurgical product evaluation, such as corrosion testing, spectrographic analysis and also isotopic assays.

- 5 -

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DR. ZALMAN MORDECAI SHAPIRO

To perform these functions and services, the corporation has a complete chemistry laboratory, including advanced mechanical and physical metallurgical equipment necessary for a well-rounded reactor materials research and development program. These laboratory facilities include complete wet analytical and instrumental facilities and a separate physical chemical laboratory equipped to undertake advanced physical chemical measurements involving high vacuum and high temperature techniques. An additional chemical engineering laboratory is engaged in development laboratory-scaled production activities in connection with scrap recovery, the production of materials such as uranium oxides and compounds and chemical separations.

In addition to the above activities, NUMEC (Delaware) has moved into the function of operating contractor, managing boron isotope separation facility for the Atomic Energy Commission. Also, designs and produces portable irradiators, and complete isotopic-powered electric generating systems for terrestrial applications.

Distribution sales are to industrials, the United States Atomic Energy Commission, universities, colleges, and atomic power laboratories. Various terms depending on product, but generally net 30 days, progress payments in some instances completion of job. As operating contractor, terms are costs plus fixed fee.

Source furnished the following background information concerning NUMEC (Delaware) officials:

Leonard P. Pepkowitz, Vice President, was born in 1916 and is married. He completed his formal education in 1943 and holds a B.S. degree from the University of Minnesota; earned his Ph.D. at Rutgers University. He was employed as Assistant Chemist of Rhode Island Experiment Station from 1943 to 1944; 1944 - 1945, Chemist, Los Alamos Atomic Laboratory; 1945 - 1946, Group Leader, Analytical Chemistry, Los Alamos Atomic Laboratory. In 1947, he was employed by Knolls Atomic Laboratory, and continued there until 1957, at which time he resigned. He served as Manager of Metallurgical and Chemical Analysis, and Manager of the Chemical Laboratory. He is author or co-author of over thirty papers and

- 6 -

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DR. ZALMAN MORDECAI SHAPIRO

scientific journals, as well as many classified publications. He is a member of the American Chemical Society, A.A.A.S., and New York Academy of Sciences. He is in charge of chemistry. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business. He is General Manager of the Niagara Division, a subsidiary of NUMEC.

Oscar S. Gray, Vice President - Treasurer, was born in [ ] He is single and became associated with the corporation on April 1, 1957. He graduated from Yale College and Yale Law School and holds a B.A. degree and LL.B. degree. From 1951 until becoming associated with this organization, he was a member of the Legal Advisor's Office of the Department of State, Washington, D. C. He handles financial and legal matters for the corporation. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business. He is Secretary-Treasurer of NUMEC Instrument and Controls Corporation; and is Treasurer of Nuclear Decontamination Corporation, both subsidiaries of NUMEC.

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Meredith S. Johnson, Controller and Assistant Treasurer, was born in [ ] He is married and is a 1951 graduate of the University of Pittsburgh with a B.S. degree in Business Administration. He is a C.P.A. by profession. He formerly had been employed by Bachrach, Sanderbeck and Company, C.P.A.'s, Pittsburgh, Pa., and by United States Air Force from 1941 to 1945. In 1956, he became an officer of Magnetics, Inc., Butler, Pa., manufacturer of electronic and magnetic materials and components. Later, he was Vice-President and Treasurer of the corporation, but resigned to assume present office with NUMEC in December, 1964.

Source furnished the following background information concerning Frederick Forscher and Jaek R. Newman, who recently resigned from NUMEC:

Frederick Forscher, formerly Vice-President of NUMEC, was born in 1918 and is married. He holds B.S. and M.S. degrees from Princeton University and earned his Ph.D. at Columbia University. He was assistant civil engineer at Princeton University, 1946 - 1947; Instructor, Mechanics and Material, Columbia University, 1947 - 1952; Supervisor, Mechanical Metallurgy, Westinghouse Electric Corporation, 1952 - 1957.

- 7 -

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DR. ZALMAN MORDECAI SHAPIRO

He is a member of the Princeton Engineering Society; A.S.M. - S.L.A. Metallurgical Literature Classification Committee; A.S.M.; A.I.M.E.; S.E.S.A.; and A.S.M.E. He is in charge of metallurgical. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business.

Jack R. Newman, formerly Secretary - General Counsel of NUMEC, was born in [ ] is married and is a native of New York State. He is an attorney by profession and a member of the Bar of New York State. Newman is a graduate of Cornell University, School of Industrial and Labor Relations, and also a graduate of Columbia University Law School, Class of 1959. Prior to 1960, he was associated with General Counsel for the United States Atomic Energy Commission. Since 1960, Newman had been counsel for the Joint Congressional Committee on Atomic Energy. Newman served as a First Lieutenant in the United States Air Force from 1955 to 1957. He was elected to his present office about November 9, 1964.

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On May 24, 1968, a Special Agent of the Federal Bureau of Investigation, in connection with another matter, obtained a copy of an incomplete brochure currently being prepared for distribution by NUMEC (Delaware), of Apollo, Pa. This brochure contains, in part, the following information:

In April (1968), Atlantic-Richfield entered the nuclear energy field by acquiring NUMEC of Apollo, Pa., and its 700 employees will operate as a wholly-owned subsidiary of Atlantic-Richfield under ARCO Chemical Company, continuing operations with its present management and staff.

Started in late 1956, NUMEC was the brain-child of men of vision who participated in the early development of the nuclear age, notably Dr. Zalman M. Shapiro, President, Dr. Frederick Forscher (deleted) and Leonard P. Pepkowitz.

- 8 -

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DR. ZALMAN MORDECAI SHAPIRO

The company is an important producer of nuclear fuels and other materials used in commercial nuclear power reactors. Such exotic elements as uranium, plutonium, thorium, hafnium and zirconium, most of which were only laboratory curiosities a quarter of a century ago, are used in company operations.

Working under rigid health and security regulations, the firm holds Atomic Energy Commission licenses for possessing, handling and processing nuclear materials. NUMEC also holds permits from the Commonwealth of Pennsylvania for radioactive waste disposal. The company is certified for storage of classified documents.

One of NUMEC's most interesting products has just come off the drawing boards. Using plutonium-238 as a power source, NUMEC scientists and engineers will soon begin testing a radioisotope-powered cardiac pacemaker.

NUMEC headquarters and some research and production activities are in Apollo, approximately 30 miles northeast of Pittsburgh. NUMEC was first housed in a building that was originally a shipping and storage building for a steel company. Now it is the heart of uranium processing operations. In facilities of over 65,000 square feet, nuclear products are produced.

In addition, the company has a 58 acre site five miles north of Apollo, where the Advanced Materials Center is located. In this complex NUMEC operates extensive manufacturing facilities and a full range of research, development, testing, decontamination and waste disposal functions and services. The Advanced Materials Center is the world's first privately-owned, fully-integrated plant engaged in the production, research and development of plutonium as a fuel material.

- 9 -

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DR. ZALMAN MORDECAI SHAPIRO

Since 1960, NUMEC's main efforts have been devoted to this program, sponsored by the Atomic Energy Commission. The plant's original 20,000 square foot space has been nearly doubled since 1960 to permit the company to provide products and services on a commercial basis.

Plutonium is a man-made fissionable product formed from the uranium isotope U-238 in a nuclear reactor. Uranium-238 makes up 99.3 percent of natural uranium, but it does not produce energy through a chain reaction.

Plutonium, however, can produce energy through a chain reaction, and scientists are developing commercial methods for exploiting this.

In 1961, NUMEC erected a second plant at the Center, primarily for process development and manufacturing of ultra-high purity materials. There engineers developed a new production technique for manufacturing hafnium crystal bars weighing more than 300 pounds and measuring over 50 feet in length. Rolled into plate form, the hafnium is used for control rods for nuclear reactors.

In October, 1964, NUMEC became operating contractor for the Atomic Energy Commission's Niagara Falls Isotope Separation Facility. The plant is the only producer in the free world of B10, a boron isotope. B10 is a valuable material for use in fabrication of reactor control rods because of its high neutron absorption capacity. The 110 employees working on the 340 acre site are processing B10, and researching new uses for it and B11, a by-product from the process.

- 10 -

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DR. ZALMAN MORDECAI SHAPIRO

NUMEC's accomplishments and capabilities are reflected in the international scope of the company's business. The diversity of NUMEC's customer roster includes every domestic nuclear reactor fabricator and numerous leading aerospace manufacturers, in addition to similar organizations abroad.

As a producer and consultant, NUMEC also serves such governmental agencies as the U. S. Department of Defense, NASA, Atomic Energy Commission; the Atomic Energy Commissions of France, Italy, Belgium, Sweden, Canada, the Netherlands and Japan; and leading international research institutes.

Currently, plant space totaling more than 150,000 square feet is devoted to manufacturing, research and development and general offices. In manufacturing, the company has produced hundreds of tons of nuclear fuel materials for major reactor projects, such as the Yankee Power Reactor in New England, the San Onofre in Southern California, and the SELNI Reactor in Italy.

NUMEC was one of the first firms to receive Atomic Energy Commission permits for processing uranium of all enrichments. NUMEC, however, does not own the plutonium and enriched uranium that go into its plants. Because of security arrangements, the Atomic Energy Commission owns all such material and required that detailed records be kept by all companies handling the materials. It sells only its services for processing the uranium into usable forms - not the uranium itself. The firm receives raw materials under special lease from the Atomic Energy Commission in the form of uranium hexafluoride which has been processed from the uranium ores.

- 11 -

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DR. ZALMAN MORDECAI SHAPIRO

Safety regulations govern every move made at the plant. For example, metal "birdcage" racks isolate uranium hexafluoride containers. If placed too close together, a "critical" condition results, creating extremely high temperatures. Signs and light signals indicate areas where radioactive materials are being processed or used.

Even a minute amount of plutonium may pose a radiation problem and many safeguards are used in the plant to avoid accidental exposures. Waste materials must be disposed of very carefully. They are usually packaged in sealed containers and sent outside the area for burial in locations approved by the Atomic Energy Commission.

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FBI

Date: 5/29/68

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Transmit the following in \_\_\_\_\_  
(Type in plaintext or code)

Via AIRTEL \_\_\_\_\_  
(Priority)

TO: DIRECTOR, FBI [redacted] 117-2564  
FROM: SAC, PITTSBURGH [redacted] (P)  
SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
(IS - ISRAEL) (S) (U)  
ATOMIC ENERGY ACT

CLASS. & EXT. BY SP-4 J. [redacted]  
DATE OF [redacted] 8/29/81  
comp. # 201611  
7/15/81  
367/ [redacted]  
4-18-85

Re Bureau airtel to Pittsburgh dated 5/20/68; Pittsburgh airtels to Bureau dated 5/24/68; and Pittsburgh airtel and letter to Bureau dated 5/29/68.

Enclosed herewith for the Bureau are five copies of LHM, datsd and captioned as above. Two copies of LHM are being furnished to both New York and Washington Field Office.

Enclosed LHM is being classified "Secret" because unauthorized disclosure of this information reflecting an FBI investigation of subject could be detrimental to the national security interests of this Government. (S)(u)

Source referred to in LHM is [redacted]  
(by request). Location: [redacted]

Crsdit records were checked by IC GEORGE C. DIPPOLD.

The brochure mentioned in LHM was secured by SA HAROLD LEE WILLIAMS and is locatsd in the 1-A Section of instant file.

- 3 - Bureau (Encls. 3) (RM)
- 2 - New York [redacted] (Encls. 2) (RM)
- 2 - Washington Field [redacted] (Encls. 2) (RM)
- 2 - Pittsburgh [redacted] (Encls. 2) (RM)

DFW/bac  
(9)

AGENCY: DASA, REC, NASA  
REQ. DATE: 5/29/68  
HOW FOR: [redacted]  
BY: [redacted]

12 JUN 8 1968

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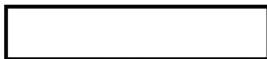
Approved: \_\_\_\_\_  
Special Agent in Charge

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN OTHERWISE  
Per NAT. INT. SEC.

100-11476  
STAT 12-58  
JFW/bac  
2-Wko  
2-Wko  
6-6-66  
JFW/dif

DECLASSIFY ON: 25X  
6-11-85  
8-19-83  
10-15-88  
11-17-86





~~CONFIDENTIAL~~

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LEADS

PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

Will follow and report subject's activities.

Leads have been set forth in referenced Pittsburgh communications.

~~CONFIDENTIAL~~



SAC, Pittsburgh

6/6/68

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REC-73  
Director, FBI (117-2564)

1 - Mr. Wacke

DR. ZALMAN MORDECAI SHAPIRO  
(U) IS - ISRAEL (S)  
ATOMIC ENERGY ACT

~~#0320758 8-19-03~~  
~~CLASSIFIED BY 60290 BCE/MLT/JHG~~  
~~DECLASSIFY ON 6~~  
AS AMENDED

RePGairtel and LHM, both dated 5/29/68. Note change in Bufile number. Recipiente make this change in correspondence in their poseeseion in this case.

For information, AEC has advised that Jeck R. Newman, formerly Secretary - General Counsel of NUMEC is currently practicing in Washington, D. C., at 1100 Connecticut Avenue, N.W. This is being furnished on the premise that the office of origin may desire to have Newman interviewed at some later date in this investigation.

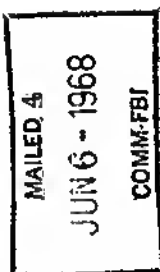
2 - New York   
2 - WFO

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APPROPRIATE AGENCIES  
AND FIELD OFFICES  
ADVISED BY ROUTING  
SLIP(S) OF 6/22/68  
DATE 10/27/81 DJ

361 VER/AG  
8/25/82  
5666 SLD/K8  
9-18-85



CLASS. SP-7 Jan/alm  
EXEMPT 6/6/88 3  
DATE OF REVIEW 7/15/81  
Comp #204, 151

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

MAIL ROOM ☐ TELETYPE UNIT ☐



UNITED STATES GOVERNMENT

# Memorandum

~~CONFIDENTIAL~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 25X(1)  
DATE 09-11-2008

TO : DIRECTOR, FBI (117-2564)

DATE: 6/13/68

FROM : SAC, WFO [redacted] (P)

(U)  
DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL] (S)  
ATOMIC ENERGY ACT  
(CC: IG)

Classified By *566500/KD*  
Declassify on *OADR*

*4-18-85*  
*8-19-03*  
*60290 BCE/MT/HTG*  
*1/6*  
*AS AMENDED*

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ReBullets 5/26/68 and 6/6/68.

In accordance with instructions in Buairtel 5/20/68, WFO has requested appropriate checks of the files of the Passport Office and Office of Security, USDS, and the Office of Security, CIA. Those requests are still outstanding. Pertinent results will be reported upon receipt. Copies of an available passport photo of the subject are being made and will be forwarded to interested offices upon receipt of the same.

On 6/7/68, SA HOMER W. SCHWEPPE made a preliminary, cursory review of files maintained by AEC, Germantown, Maryland, in the case involving NUMEC. These files are rather voluminous and contain the results of numerous security checks and efforts to have NUMEC tighten its security in accordance with AEC requirements as well as extensive reporting resulting from the investigation into the cumulative loss of enriched U 235 at NUMEC. SA SCHWEPPE made contact with certain interested AEC personnel and was assured of complete access to AEC files.

With reference to the pending review of AEC files, the various individuals contacted during SA SCHWEPPE's 6/7/68 visit to AEC were unanimous in agreement that there probably

- 2 - Bureau
  - 2 - New York [redacted] (RM) REC 29
  - 2 - Pittsburgh [redacted] (RM)
  - 1 - WFO
- ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE
- HUC:mac  
(7)

ALL FBI INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 08-02-2017 BY [redacted]

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66 JUN 18 1968

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Buy U.S. Savings Bonds Regularly on the Pay

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [redacted]



5010-108

Class. & Ext. By *SP-16SK/LRB*  
Reason - FCIM II, 1-2.4.2  
Date of Review *6-7-82*  
*2/7/82*



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[REDACTED]

was nothing contained in the various reports referring to the subject's relationship with the Government of Israel since that never was the subject of AEC inquiry.

During the 6/7/68 contact at AEC, the name of JIM LOVETT was provided by personnel in Security as an individual who might be worthy of a contact in this case at NUMEC. LOVETT was described as a former AEC employee who is now employed by NUMEC. One official speculated that in the case of LOVETT patriotism to country might well supersede loyalty to his employer.

On 6/4/68, WILLIAM H. BENNETT, Central Personnel Index, Division of Security, U. S. Atomic Energy Commission (AEC), Germantown, Maryland, advised SA EUGENE J. SHEEHAN, Jr., that the subject was granted a "Q" clearance by the Chicago Operations Office, AEC, in May, 1949, which was terminated in May, 1957. He currently has an active "Q" clearance as of May, 1958, with the New York Operations Office, AEC. The subject's file is located at the above office.

REQUEST OF THE BUREAU

Attention is drawn to Cover Page A of the 6/21/66 Pittsburgh report of SA WISEMEN in the previous Registration Act case on the subject, on which it is noted that "DR. CHAIRO advised that during business trips abroad [REDACTED]"

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[REDACTED]

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[REDACTED]

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LEADS:

NEW YORK

AT NEW YORK, NEW YORK

1. Will review the subject's AEC security file in possession of the New York Operations Office, AEC, for information pertinent to instant inquiry. (It should be noted that the subject's AEC file number may be WA 118492 (CH-2933)).

PITTSBURGH

AT PITTSBURGH, PENNSYLVANIA

1. Will, after developing sufficient background on JIM LOVETT, consider an approach to him in connection with this case. [REDACTED]

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~~CONFIDENTIAL~~



# Memorandum

TO : DIRECTOR, FBI (117-2564)

FROM : SAC, PITTSBURGH [redacted] (P)

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL; ~~IS~~ (S)  
ATOMIC ENERGY ACT

Re Pittsburgh airtel to the Bureau, dated 5/29/68.

Enclosed herewith for the Bureau are five copies of an LHM, dated and captioned as above. Two copies of LHM are being furnished to both New York and Washington Field Office.

Enclosed LHM is being classified "~~Secret~~" because unauthorized disclosure of this information reflecting an FBI investigation of subject could be detrimental to the national security interests of this Government. (S)(u)

[redacted] records concerning subject and NUMEC were checked [redacted]

[redacted] has been a confidential source of the Pittsburgh Office for approximately [redacted] Complete security conditions existed during the review of these records by SA WAYNE MORSE. Pittsburgh is contemplating

[redacted] but only at this point in the investigation through well-established sources.

Discreet and carefully planned fisurs of subject have disclosed that subject leaves his residence for Apollo, Pa., between 7:40 a.m. and 8:11 a.m. He generally drives a 1967 four-door, dark blue Buick Electra, bearing Pennsylvania license 22170H, but has on two occasions driven an approximate 1967 four-door bronze Ford sedan, bearing Pennsylvania license 22171H. He travels to his place of employment in Apollo, Pa., to date, nonstop, using the same route. He is known to generally travel at very high rate of speed.

- 2 - Bureau (Enc. 5) (RM) REC-44  
2 - New York [redacted] (Enc. 2) (RM)  
2 - Washington Field [redacted] (Enc. 2) (RM)  
3 - Pittsburgh  
DFW:sms 1 - 66-2953  
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15 JUN 17 1968

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[redacted] has stated that he is willing to fully cooperate with the FBI on a strictly confidential basis. Pittsburgh is continuing its efforts to develop [redacted]

[redacted] This endeavor, however, must be cautiously handled and will of necessity take additional time. [redacted] however, is aware of FBI interest in [redacted] and will attempt to furnish such information to the FBI. [redacted] is currently making efforts [redacted]

Mr. CLEMENT A. PALAZZOLO furnished the information contained in the LHM to SA HAROLD RUBENSTEIN.

ALLAN S. DE LAND furnished information to SA JACK W. SULLIVAN on 11/20/63 and 10/20/63.

Dun and Bradstreet records, voters records, and credit records (1968) of Pittsburgh were checked by SE RAY J. COLIN.

Credit records of Pittsburgh (1951) were checked by SE IRWIN J. LECHNER.

The SA who observed subject on 6/10/68 is SA JOHN J. RUSSELL.

Sources utilized in the LHM are identified as follows:

First source is [redacted] (by request)

Second source is [redacted]

[redacted] (by request)

Third source is [redacted] S)

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[redacted]

Fourth source is [redacted]

[redacted]

(by request)

[redacted]

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LEADS

WASHINGTON FIELD

AT WASHINGTON, D. C.

1. Will check passport records, Passport Office, United States Department of State, concerning DAVID LOWENTHAL, [redacted] Pittsburgh, Pa.

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2. Will check [redacted] State Security Offices for available pertinent information concerning DAVID LOWENTHAL and obtain photograph.

PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

Will follow and report subject's activities and will, by separate communication, set out additional leads in this matter.

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UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

Pittsburgh, Pennsylvania

June 13, 1968

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In Reply, Please Refer to  
File No.

#1032058 8-1903  
60290 BCE/mil/jab  
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AS AMENDED

DR. ZALMAN MORDECAI SHAPIRO

Investigation was instituted at the request of the Attorney General to establish the nature and extent of Zalman Mordecai Shapiro's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States.

(U) ~~(S)~~ [On June 5, 1968, a source, contact with whom has been insufficient to judge the reliability of his information,] but who is [redacted] in a position to furnish information concerning the activities of the subject and who is described by his associates as being a reliable and respectable individual, advised that Zalman Mordecai Shapiro is the President of Nuclear Materials Corporation (NUMEC), Apollo, Pa. Source advised that NUMEC, a producer of nuclear materials, and Raychord Corporation, a steel fabricating company, occupy the same building, which is located at Warren and North Seventh Avenues, Apollo, Pa. Source advised that NUMEC has at least five other locations in the Apollo area. The President of Raychord Corporation is David L. Lowenthal, a long-time close personal friend of subject. Source advised that Lowenthal is also an officer of Apollo Industries of Pittsburgh, Pa., a company which was instrumental in establishing NUMEC through investing a substantial amount of money in NUMEC stock. Source advised Lowenthal and subject are frequently observed together and generally have lunch together at a restaurant in Apollo where a number of employees from both Raychord and NUMEC eat. Source further added that Lowenthal and subject reside near each other in Pittsburgh, Pa.

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GROUP I  
Excluded from automatic  
downgrading and  
declassification

SP-4 [signature]  
6/12/88 2.3  
7/16/81

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

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Class. & Ext. ~~SP-16SK/1RB6~~  
Reason - FCIM II, 1-2.4.2  
Date of Review 8-13-88 2+3  
217,822

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-1,5-4/DIPLO)  
DATE 08-03-2017 BY: [redacted]

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [redacted]

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DR. ZALMAN MORDECAI SHAPIRO

Source advised that David Lowenthal is closely associated with high-ranking officials of the Israeli Government and recently he observed photographs of Lowenthal shaking hands with Ben-Gurion and Moïshe Dayan in Israel. Source said Lowenthal reportedly fought for Israel as a Freedom Fighter in 1956 and currently travels to Israel on the average of approximately once each month. Source advised he was not aware of the purpose of these trips to Israel and whether Lowenthal is accompanied by anyone else.

Source advised that [REDACTED]

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Source advised that he recalled that the employees of NUMEC went on a strike about three or four years ago, and at one time during the strike would not permit the company executives and other non-union employees to enter the plant. Source further stated that a former employee of NUMEC by the name of [REDACTED] who is currently employed at [REDACTED] informed him that while he was employed at NUMEC, he had been in charge of the vault, and just prior to the strike mentioned above, there was an unexplained fire in the vault which destroyed some of the "material" maintained there. Source said the "material" was not further identified.

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On June 7, 1968, Mrs. Jean Rodriguez, Receptionist, Credit Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised that her records show that David Lowenthal and

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DR. ZALMAN MORDECAI SHAPIRO

wife, RITA, reside at [redacted] and that David Lowenthal has been employed as the President of Apollo Industries, Frick Building, Pittsburgh, Pa., since 1955. She advised that her records further show that Lowenthal maintains a satisfactory credit rating with that Bureau.

Records of the Voters Registration Bureau, County Office Building, Pittsburgh, Pa., as checked on June 7, 1968, disclosed that David Lowenthal has resided at [redacted] since April, 1958; that he resided at 5517 Kamin Street, Pittsburgh, in September, 1954; and at 6223 Nickolson Street, Pittsburgh, as of September 16, 1950. Lowenthal was shown to be a white male; born [redacted] in Poland; employed as a salesman; height, 5 feet 9 inches; eyes, brown; and hair, brown. He was naturalized on July 27, 1945, in the United States District Court, Pittsburgh, under Certificate Number [redacted].

(u) (S) (C) On June 10, 1968, a second source, who has furnished reliable information in the past, furnished the following information regarding David Lowenthal, Chairman, Secretary, and General Manager of Raychord Corporation, Apollo, Pa.:

Lowenthal was born [redacted] and is married. He served with the United States Armed Forces during World War II and for a time thereafter was employed by the Columbus Pipe and Equipment Company, Columbus, Ohio. The Columbus Pipe and Equipment Company at one time was the parent company of Mount Vernon Bridge Company. In December, 1953, Lowenthal and one Morton Chatkin and others acquired control of Mount Vernon Bridge Company. Lowenthal remained with Mount Vernon Bridge Company in the capacity of Vice President until 1955, when he sold his interest, and thereafter acquired the Apollo Steel Plant at Apollo, Pa. During 1958, the Apollo Industries was established through the

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DR. ZALMAN MORDECAI SHAPIRO

merger of the San Toy Mining Company, American Nut and Bolt Fastener Company, and the Apollo Steel Company. Lowenthal became President and Treasurer of Apollo Industries. Lowenthal also is Vice President of Holden Fence and Steel Company, Inc., Charleston, W. Va. He was Secretary-Treasurer of Mount Vernon Sales Corporation, Pittsburgh, Pa., and was a principal-at-interest in Minute Parking, Inc., Pittsburgh, which has been inactive for several years.

(4) (X) (S) [On June 10, 1968, second source] furnished the following information concerning the Raychord Corporation, Post Office Box 307, Apollo, Pa.:

The Raychord Corporation was incorporated in Pennsylvania on May 17, 1962, and occupies a 420,000 square foot plant in Apollo, Pa. The business has 14 overhead cranes, plus other equipment necessary for fabricating open-steel hoists and other structural steel, which accounts for the majority of volume. To a lesser extent, Raychord manufactures sheet metal roof decks. Source advised that Apollo Industries, Inc., Pittsburgh, holds 45% minority interest in Raychord, and that a large portion of the balance of stock, although not necessarily a controlling interest, is held by Philip Sweig and Sons, Gary, Indiana. A minority interest is also held by Raymond Torres, at least on an option-to-buy basis, up to one-third of the capital stock. Source advised that the fiscal May 31, 1967, annual report of Apollo Industries indicated that they have made loans and advances to Raychord for \$2,640,304. Also, at that time, Apollo Industries held \$25,000 of outstanding common stock and \$350,000 of preferred stock in this company. (S) (u)

[Second source advised] that officers of Raychord include Irvin F. Levitt, Treasurer, who was born at Pittsburgh, Pa., during 1915. Levitt was President of Union Screw and Manufacturing Company, acquired in October, 1959, by Apollo Industries, Inc. Levitt is President of Investment Capital Corporation, Pittsburgh, and Board Chairman of Allegheny Cold Storage Company, Pittsburgh, Pa.

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DR. ZALMAN MORDECAI SHAPIRO

(u)(x) On May 24, 1968, second source furnished the identities of the following individuals who have or are currently serving as officers of NUMEC:

Leonard P. Pepkowitz  
Vice President

Oscar S. Gray  
Vice President

Meredith S. Johnson  
Controller and Assistant Treasurer

Frederick Forscher  
Former Vice President

Jack R. Newman  
Former Secretary-General Counsel

Leonard P. Pepkowitz

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Dr. Leonard P. Pepkowitz and wife, Sandra, reside at [redacted] and have resided at that address since October, 1964. Pepkowitz commenced employment with NUMEC, Apollo, Pa., in 1959, and was transferred to their Model City Plant, Lewistown, New York, in 1964. He was born in 1919 and formerly resided at 2405 Saunder Station Road, Pitcairn, Pa. He maintains a satisfactory credit standing with that bureau.

Oscar Shalom Gray

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Oscar S. Gray, born in [redacted] and single, resides at [redacted]

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DR. ZALMAN MORDECAI SHAPIRO

[redacted] He has been employed as Secretary and Treasurer of NUMEC, Apollo, Pa., since 1957. He was formerly employed by the United States Department of State, Washington, D. C., and resided at 3636 - 16th Street, N. W., Washington, D. C., for six years. He maintains a satisfactory credit standing with that bureau.

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On December 17, 1957, Oscar Shalom Gray executed a Personal Security Questionnaire (PSQ) for the Atomic Energy Commission, on which he listed his date and place of birth as [redacted]. He described himself as being 5 feet 8 inches, 152 pounds, brown eyes, and brown hair. He indicated that he had served with the United States Marines from 1945 to 1946, and that his father, Samuel Zangwill Gray, and his mother, Esther Malka Gray, were both born in Poland. He indicated that he has been employed by NUMEC, Apollo, Pa., since April 1, 1957.

(U) [On June 28, 1963, a third source, [redacted] reliable information in the past, advised that [redacted]

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DR. ZALMAN MORDECAI SHAPIRO

According to the above third source [redacted]

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(U) Further, according to the above third source [redacted] (S)

(U) On October 9, 1963, [redacted] (S) the third source advised [redacted] (S)

(U) On November 20, 1963, Allan S. DeLand, Chief, Personnel Security Branch, Bettis Field, Atomic Energy Commission, West Mifflin Borough, Pa., advised that Arthur Martin Weis, born [redacted] at [redacted] is employed as Manager of the Marketing and Security Division, NUMEC, Apollo, Pa., and resides at [redacted]. DeLand advised that Weis has a "Q" clearance and has access to classified materials. According to DeLand, Weis was in the United States Navy from 1943 to 1945; attended the United States Naval Academy in 1945 and 1946; received a Bachelor of Aeronautical Engineering from Rensselaer Polytechnic Institute, Troy, New York, in 1947; attended New York University Law School in 1947 and 1948; and attended Rutgers University Law School in 1948 to 1951, receiving an L.L.B. Degree in 1951. Weis was formerly employed by the Curtis-Wright Corporation in New Jersey, and prior to joining NUMEC at Apollo, Pa., in May, 1959, he was engaged in private law practice in New Jersey. (S) (u)

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DR. ZALMAN MORDECAI SHAPIRO

On October 20, 1963, DeLand advised that Oscar Shalom Gray, born [redacted] at [redacted] is the Secretary-Treasurer of NUMEC at Apollo, Pa., and resides at [redacted]. DeLand advised that Gray has access to classified material in connection with his position at NUMEC. Gray received a B.A. Degree from Yale College, New Haven, Connecticut, in 1948, and an L.L.B. Degree from Yale Law School in 1951. He was employed by the United States Department of State at Washington, D. C., from 1951 to 1957, when he joined NUMEC at Apollo, Pa.

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On December 12 and 16, 1963, Mr. Clement A. Palazzolo, Chief, Research Branch, United States Atomic Energy Commission (USAEC), made available the following information:

Records of the Division of Licensing and Regulation, USAEC, contained no information with respect to any shipment such as described above. However, a review of the Materials Branch, Division of International Affairs, USAEC, revealed that the above transaction had actually been accomplished under the United States - Israel Agreement for Cooperation, pursuant to Article III-B. Mr. Palazzolo further advised that the USAEC authorized the above-mentioned NUMEC firm to fabricate four Plutonium-Beryllium Neutron sources of five Curies each to be used by the Department of Nuclear Science, Israel Institute of Technology for experiments in the field of phase diagrams of Plutonium Salt Mixtures at Nahal Sarog, in Israel. (S) (u)

There were approximately 320 grams of Plutonium contained in the sources and the contract cost was \$12,600. The shipper's Export Declaration executed and returned to the USAEC revealed that Wolf and Gerber, Inc., 27 Williams Street, New York City, were the carrier's agent. The (S) (u)

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DR. ZALMAN MORDECAI SHAPIRO

UNCLASSIFIED  
PER DOE  
6/29/82  
SP-4 elw/afm  
11/25/83

shipment was accomplished on June 30, 1963, and delivery made to El Al Airlines (shipment weight 600 pounds). (S) (u)

Mr. Palazzolo further advised that the above agreement pertains only to unclassified material.

The November, 1963, issue of the "Diplomatic List," published by the United States Department of State, reveals that Lavi is the Scientific Counselor at the Embassy of Israel, Washington, D. C. (S) (U)

Meredith S. Johnson

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Meredith S. Johnson and wife, Frances, reside at [redacted]. He previously resided at 212 Muntz Avenue, Butler, Pa., and was employed by the Lord Manufacturing Company. She said records indicated that Johnson maintained a satisfactory credit rating with that bureau.

Frederick Forscher

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records show that Frederick Forscher and wife, Mia, reside at [redacted] and have resided at this address since 1957. Forscher has been employed as Vice President of NUMEC, Apollo, Pa., since 1957. He was born in 1917 and maintains a satisfactory credit standing with that bureau.

On June 23, 1956, Frederick Forscher executed a PSQ for the Atomic Energy Commission, on which he listed his date and place of birth as May 20, 1918, at Vienna, Austria. He indicated that he was naturalized on January 3, 1939, at Wilmington, Delaware, Petition Number 136209 and

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DR. ZALMAN MORDECAI SHAPIRO

Certificate Number 5755013. He described himself as being 6 feet, 160 pounds, brown eyes, and brown hair. He indicated that he was employed from September, 1952, to that date by the Westinghouse Atomic Power Division, Pittsburgh, Pa., and resided, as of 1950, at 5854 Alderson Street, Pittsburgh, Pa. He indicated that he had served with the United States Army from 1941 to 1946, under Serial Number 32088350.

Jack R. Newman

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Jack R. Newman and wife, Karen, reside at [redacted] and that he was employed by the Rizik Building, 1100 Connecticut Avenue, Washington, D. C. Records showed that he was born [redacted] and was formerly employed by NUMEC, Apollo, Pa., at which time he resided at 1157 Windermere Drive, Pittsburgh, Pa. (S)(2)(u)

[On May 24, 1968, second source] furnished the identities of the following Directors of NUMEC:

Charles N. Berents  
Leon Falk, Jr.  
Dr. William Fondiller  
Dr. Frederick Forscher  
Oscar S. Gray  
Dr. Leonard P. Pepkowitz  
Philip H. Powers  
Benjamin H. Rosen  
Dr. Zalman M. Shapiro

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DR. ZALMAN MORDECAI SHAPIRO

Charles N. Berents

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Charles N. Berents and wife, Helen, reside at 159 Del Rio Drive, Pittsburgh, Pa. He was shown as having been born in 1915 and is Vice President in Charge of Investments, J. H. Hillman and Sons Company, 1900 Grant Building, Pittsburgh, since 1960. He formerly resided at 4621 Rolling Hills Road, Pittsburgh, Pa., and maintains a satisfactory credit rating with that bureau.

Leon Falk, Jr.

On February 19, 1951, the following information concerning Leon Falk, Jr., was obtained from the Credit Bureau, Inc., 635 Smithfield Street, Pittsburgh, Pa.:

One credit report dated October 20, 1947, reflects that Falk was separated from his wife, Catherine, who resided at that time at 120 East 39th Street, New York, N. Y., and that on October 27, 1947, a suit in divorce was filed in the October Term of the Court of Common Pleas, Allegheny County, by Leon Falk. This report contends that during World War II, Falk lived at the Raleigh Hotel in Washington, D. C., where he was connected with the United States Government Board of Economic Warfare as Chief of the Vegetables, Fats, and Oils Section. The report continues that Falk is connected with the following in Allegheny County:

Director and Second Vice President of the  
Community Chest of Allegheny County  
Director and Vice President of Amalgamated  
Realty Company  
Director and Vice President of the Edgewater  
Steel Company

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DR. ZALMAN MORDECAI SHAPIRO

Director and Vice President of the Farmers  
Deposit National Bank  
Director and Chairman of the Board of the Falk  
Foundation  
Director and President of Midtown Motors, Inc.  
Director and President of the Reliance Life  
Insurance Company  
Trustee of the University of Pittsburgh  
Vice President of the Young Mens and Womens  
Hebrew Association  
Director and President of the Webster Hall  
Hotel, Pittsburgh, Pa.

A credit report dated February 11, 1949, reflects that Leon Falk is considered a millionaire; that he divorced his first wife in 1947 and married a sister of his first wife in 1948. In addition to the organizations listed previously, with which he was connected, this credit report reflects that Falk is Chairman of the Board of Falk and Company; that he is Director of the Allegheny Council of the Boy Scouts of America; and that he is listed in the Social Register.

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Leon Falk, Jr., and wife Loti reside at [REDACTED]

[REDACTED] Records show that he has been an Executive Committee member of National Steel, 3315 Grant Boulevard, Pittsburgh, Pa., since 1960, and has been Chairman of the Board, Maurice and Laura Falk Foundation, 3312 Grant Building, since 1930. She advised that Falk maintains a satisfactory credit rating with that bureau.

On November 9, 1959, Leon Falk, Jr., executed a PSQ for the Atomic Energy Commission, on which he listed his date and place of birth as September 23, 1901, at

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DR. ZALMAN MORDECAI SHAPIRO

Pittsburgh, Pa. He indicated that he was a Director of NUMEC, Apollo, Pa., since 1959, and was also a Director of Pennsylvania Industrial Chemical Corporation, Clairton, Pa., since 1947. He described himself as being 5 feet 10½ inches, 170 pounds, hazel eyes, and gray-brown hair. He indicated that he has resided at 718 Devenshire Street, Pittsburgh, Pa., since 1949.

William Fondiller

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records contain no information concerning William Fondiller.

Philip H. Powers

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records contain no identifiable information concerning Philip H. Powers.

During 1952, one Philip Henry Powers executed a PSQ for the Atomic Energy Commission, on which he listed his date and place of birth as May 7, 1893, at Berryville, Virginia. He described himself as being 5 feet 10½ inches, 165 pounds, blue eyes, and brown hair. He was shown to be residing at 5808 Northumberland Street, Pittsburgh, Pa., and employed at the West Penn Power Company, Pittsburgh, since 1928.

Benjamin H. Rosen

On May 27, 1968, Mrs. Jean Rodriguez, supra, advised that her records reflect that Benjamin H. Rosen and wife, Bertha, resided at 5048 Fifth Avenue, Pittsburgh, Pa. Records show he was born during 1907 and has been a self-employed attorney since 1931. He maintains a satisfactory credit rating with that bureau.

13

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DR. ZALMAN MORDECAI SHAPIRO

(u) ~~(S)~~ [On May 31, 1968, a fourth source] who has furnished reliable information in the past, furnished the following information: ~~(S)~~

14

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~~SECRET~~



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~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

(u) The following description of Dr. Zalman Shapiro was obtained [from first source and] through observation by a Special Agent of the FBI on June 10, 1968:

Name	Zalman Mordecai Shapiro
Sex	Male
Race	White
Age	48
Height	5 feet 9 inches
Weight	180 pounds
Nose	Thin and long
Hair	Brown, greying at the temples
Complexion	Medium
Characteristics	Wears glasses

18\*

~~SECRET~~

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MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947)		See me about this. Note and return	For concurrence. For sign	For action For in at
TO (Name and unit)  Joseph Fitzgerald FBI Liaison Section Mail Stop-94	INITIALS  DATE	REMARKS  RE: U. S. NUCLEAR CORPORATION BURBANK, CALIFORNIA  Attached for your information are two copies of an Order dated June 1, 1968, which was issued to U. S. Nuclear Corporation.  Attachment: Two (2) copies of Order		
TO (Name and unit)	INITIALS  DATE	REMARKS  Attachment: Two (2) copies of Order		
TO (Name and unit)	INITIALS  DATE	REMARKS  Attachment: Two (2) copies of Order		
FROM (Name and unit)  J. R. Roeder, CO	INITIALS  DATE	REMARKS  Attachment: Two (2) copies of Order		
<p>ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 6-23-85 BY 5668 SW/KR Per DOE letter 6-6-85</p> <p>117-2564-2</p> <p>NOT RECORDED JUN 17 1968</p> <p>ENCLOSURE</p> <p>117-2564</p>				
PHONE NO. 7358	DATE 6/3/68	USE OTHER SIDE FOR ADDITIONAL REMARKS		

USE OTHER SIDE FOR ADDITIONAL REMARKS

U. S. GOVERNMENT PRINTING OFFICE : 1957-O-422007



~~CONFIDENTIAL~~b6  
b7C

FBI

Date: 5/24/68

Transmit the following in \_\_\_\_\_

(Type in plaintext or code)

Via AIRTEL

(Priority)

To: Director, FBI (117-2564)

From: SAC, Pittsburgh   PDR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
ATOMIC ENERGY ACTClassified by 66850JRD  
Declassify on  b3  
b7E

ReBuairtel to Pittsburgh, et al, 5/20/68.

Bureau is requested to furnish the Pittsburgh Office copies of subject's income tax returns from 1963 through 1967 for the purpose of additional investigative leads, financial status, and other suspicious entries.

Subject resides at   Pittsburgh, Pa., and was born 5/12/20 at Canton, Ohio. He is employed as President of Nuclear Materials and Equipment Corporation, Apollo, Pa.

b6  
b7C

100-3 - Bureau (RM)  
1 - Pittsburgh

DFW/jep

(4) ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

REC-115

117-2564-8

20 MAY 25 1968

Class. &amp; Ext. By SP-1 GJK/IRB6

Reason - FCIM 1-2.4

Date of Review 5-21-82

217,822

4-16-82

54 JUN 20 1968

NAT. SEC.

~~CONFIDENTIAL~~

Approved: \_\_\_\_\_

Special Agent in Charge

Sent \_\_\_\_\_

M

Per \_\_\_\_\_



~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~

b6  
b7C

- 1 - Mr. DeLoach
- 1 - Mr. Sullivan
- 1 - Mr. Cotter
- 1 - Liaison
- 1 - Mr. Wacke

May 29, 1968

Uncertified copies of income tax returns for the years 1963 through 1967 are requested concerning Dr. Zalman Mordecai Shapiro who resides at  Pittsburgh, Pennsylvania. He is employed as President of Nucler Materiale and Equipment Corporation, Apollo, Penneylvania.

b6  
b7C

8-19-03  
CLASSIFIED BY 60290 BCE/mr/jrb  
DECLASSIFY ON 6  
AS AMENDED

JFW:djf  
(8)

NOTE:

See memorandum, Cotter to Sullivan, same date captioned "Dr. Zalman Mordecai Shapiro, [IS - Israel,] (S) (U) Atomic Energy Act," prepared by JFW:djf.

Original and copy of this memorandum being furnished

b3

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

*via Liaison 6/6/68*

Class. & Ext. By ~~SP10 RB6~~  
Reason - FCIM II, 1-2.4.2  
Date of Review ~~4-16-82~~

Classified By ~~SP10 RB6~~  
Declassify On ~~OADR~~

stson \_\_\_\_\_  
iLoach \_\_\_\_\_  
hr \_\_\_\_\_  
shop \_\_\_\_\_  
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dy \_\_\_\_\_

*228*

54 JUN 20 1968

MAIL ROOM ☐ TELETYPE UNIT ☐

~~CONFIDENTIAL~~

REC-115

25 JUN 17 1968



~~CONFIDENTIAL~~

b6  
b7c

UNITED STATES GOVERNMENT

# Memorandum

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-15-2017 BY:  

TO : Mr. W. C. Sullivan

DATE: 5/29/68

FROM : R. D. Cotter

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
INTERNAL SECURITY - ISRAEL  
ATOMIC ENERGY ACT

Classified By 546150/10  
Declassify on DATE

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

This memorandum recommends obtaining subject's income tax returns from 1963 through 1967 for assistance in investigation of subject.

Subject is the head of Nuclear Materials and Equipment Corporation, Apollo, Pennsylvania, which processes U-235. In the past he has been in contact with Israeli Government officials, particularly those in the Israeli Atomic Energy Commission and, in fact, in 1965 formed a joint company in Israel with prominent officials of the Israeli Atomic Energy Commission for the purpose of irradiation of fruits and vegetables. At the request of the Attorney General we have instituted investigation to determine the nature and extent of subject's relationship with the Government of Israel with the purpose in mind of determining whether the subject is acting as an agent for the Israeli Government. (S) (U)

The Pittsburgh Office has requested that copies of subject's income tax returns for the years 1963 through 1967 be obtained for the purpose of additional investigative leads, financial status and data and any suspicious entries. A review of these income tax returns could be of benefit in ascertaining whether the subject is living beyond his means and possibly obtaining money from undisclosed sources.

ACTION:

Enclosed for approval is a blind memorandum  

Enclosure

97-117-23-4  
JFW:djf (6)  
1 - Mr. DeLoach  
1 - Mr. Sullivan  
1 - Liaison  
1 - Mr. Cotter  
1 - Mr. Wacks

Class. & Ext. By SP-1 GSK/IRB

Reason - FIM II, 1-1.1

Date of Review 5/29/88

217,822 4-16-82

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED

EXCEPT WHERE SHOWN

OTHERWISE

6030 BCE/mj/7/76  
AS AMENDED

54 JUN 20 1968

~~CONFIDENTIAL~~

b3

JUN 17 1968



**SECRET**

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1)  
DATE 03-11-2008

UNITED STATES GOVERNMENT

# Memorandum

TO : Mr. D. J. Brennan, Jr.

DATE: May 24, 1968

FROM : S. J. Papich

REC 16

(U) SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
INTERNAL SECURITY - ISRAEL  
ATOMIC ENERGY ACT

Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

b3

## ACTION:

The above information and enclosure are being directed to the attention of the Nationalities Intelligence Section.

## Enclosure

- 1 - Mr. Cotter (Wacks)
- 1 - Liaison
- 1 - Mr. Papich

SJP:clb  
(4)

ALL FBI INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 08-17-2017 BY

Classified By ~~5068340/KO~~  
Declassify on: OADR

4-18-85

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b7C

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

REC 16

117-2564-13

Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM II, 1-2.4.2  
Date of Review 5-24-84

4-16-80

14 MAY 20 1968

b3  
b6  
b7C

**SECRET**

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY



~~SECRET~~~~CONFIDENTIAL~~Date of Mail 6-24-65

Has been removed and placed in the Special File Room of Records Branch.

(S)(U)

#0380758  
9-15-03

AUC 60290 BUE/MUT/STB

See File 66-2554-7530 for authority.

Classified by 566320/29  
Declassify on: OADRSubject JUNE MAIL Re: German Mordani ShapiroRemoved By BRClass. & Ext. By SP-163K/RBG  
Reason - FCIM II, 1-2.4.2 2.3  
Date of Review 5-24-82  
4-16-82

File Number

117-2564-14b3  
b7E

Permanent Serial Charge Out

~~SECRET~~ ~~CONFIDENTIAL~~

JUN 26 1968 mvs



**SECRET**~~CONFIDENTIAL~~Date of Mail 5/28/68

Has been removed and placed in the Special File Room of Records Branch.

~~(S)~~(U)#03 R0758 AUC 60290 BCE/MLT/216  
9-15-03

See File 66-2554-7530 for authority.

Subject JUNE MAIL Dr. Zelman Mardecai ShapiroClass. & Ext. By SP-1 GSK/BBG

Reason - FCIM II, 1-2.4.2

Date of Review 5-22-82Removed By BaFile Number 117-2564-15Classified By 5045 LOKDeclassify on: OADR 4-17-15

Permanent Serial Charge Out

**SECRET**~~CONFIDENTIAL~~b3  
b7E

JUN 26 1968 mvs

JUN 19 1968



~~SECRET~~  
~~CONFIDENTIAL~~

Date of Mail

5/28/68

Has been removed and placed in the Special File Room of Records Branch.

#03A0758 AUC 60290 BCC/MLT/STG  
9-15-03

See File 66-2554-7530 for authority.

*Dr. Julian W. Mordicai  
Shapiro*

Subject

JUNE MAIL

Class. & Ext. By SA 165K/RBG

Reason - FCIM II, 1-2.4.2

Date of Review 5-28-88

Removed By

1968

217,822

4-16-82

File Number

[Redacted]

117-2564-16

Classified By

Declassify on

OADR

4-16-85

Permanent Serial Charge Out

~~SECRET~~  
~~CONFIDENTIAL~~

b3  
b7E



~~SECRET~~~~CONFIDENTIAL~~

Date of Mail

5/29/68

Has been removed and placed in the Special File Room of Records Branch.

~~(S)~~ (U)#03R0758 AUC 60290 BCE/mj/HB  
9-15-03

See File 66-2554-7530 for authority.

Classified By 5468/KUN  
Declassify on 0402 4-18-85Dr. Zelman Mordelcai  
Shapiro

Subject

JUNE MAIL~~12-1968~~

Class. &amp; Ext. By

627 V GSK/RBG

Removed By

Reason - FCIM II, 2.4.2

2.3

Date of Review

2-29-88

File Number

117-2564-174-16-82

Permanent Serial Charge Out

~~SECRET~~ ~~CONFIDENTIAL~~

JUN 26 1968 mvs

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b7E



~~SECRET~~  
~~CONFIDENTIAL~~

Date of Mail

5/18/68

Has been removed and placed in the Special File Room of Records Branch.

#03A0758 AUC 60290 BCE/MLT/716  
9-15-03

See File 66-2554-7530 for authority.

15. Zalman Mordchai  
Shapiro

Subject

JUNE MAIL

Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM II, 1-2.4.2 2.3  
Date of Review 5-28-88  
217,822

Removed By

2 1968

File Number

4-16-82

[Redacted Box]

117-2564-16

Classified By SP-1 GSK/RBG  
Declassify on OADR  
4-16-85

Permanent Serial Charge Out

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~~CONFIDENTIAL~~

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ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 5/21/82 BY SP-1 GSK/RBG  
5666LD/K8 4-18-85



Federal Bureau  
Records

ation

☐ Name Searching Unit - Room 6527  
☐ Service Unit - Room 6524  
☐ Forward to File Review  
☐ Attention W.A. 2447 SNYDER  
☐ Return to Supervisor Room 2065 Ext. 2065

Type of References Requested:

☐ Regular Request (Analytical Search)  
☒ All References (Subversive & Nonsubversive)  
☐ Subversive References Only  
☐ Nonsubversive References Only  
☐ Main \_\_\_\_\_ References Only

Type of Search Requested:

☒ Restricted to Locality of Poland  
☒ Exact Name Only (On the Nose)  
☐ Buildup ☐ Variations

Subject David Lowenthal

Birthdate & Place [Redacted]

Address \_\_\_\_\_

Localities \_\_\_\_\_

R# \_\_\_\_\_

Date 6/24

Searcher  
Initials hjq

Prod. \_\_\_\_\_

FILE NUMBER

SERIAL

2/16/81  
56685-0129  
SP-4  
4-18-83  
15  
SH. 98

b6  
b7C



UNITED STATES GOVERNMENT

# Memorandum

**SECRET**

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/BIPO)  
DATE 08-03-2017 BY: [REDACTED]

b6  
b7C

TO : DIRECTOR, FBI (117-2564)

FROM : SAC, WFO [REDACTED] (P)

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
AEA  
(OO:PG)

Classified by 4-18-15 5668SLD/H  
Declassify on: OADR DATE: 6/24/68

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. & Ext. 5P-165K/RB6  
Reason - FCIM 11, 1-2.4.2  
Date of Review 217,822 4-02-82

ReWFOlet, 6/13/68.

Enclosed for New York are six copies of the photo contained on the subject's 1965 passport application. Pittsburgh is in possession of copies of that photo already.

(U) For the information of Knoxville, which does not appear to be in possession of correspondence in the current inquiry concerning the captioned subject, the Bureau has directed that the nature and extent of the subject's relationship with the Government of Israel be established. The subject is the Chairman of the Board of Nuclear Materials and Equipment Corporation (NUMEC) in Apollo, Pennsylvania. It is assumed that the Office of Origin or the Bureau will provide Knoxville with all pertinent background if specific leads for Knoxville become a necessity.

For the further information of the Bureau and interested offices, WFO on 6/11/68, reviewed the personnel file maintained by AEC on the subject, as well as the security file on NUMEC, and the reports prepared by AEC's Office of Safeguards and Materials Management following its investigation of NUMEC in 1966.

(U) (S) Although none of the material reviewed to date presents any new evidence of a SHAPIRO-Israeli relationship, certain portions of the files may be obtained for background and lead purposes and will be forwarded when made available.

- 2 - Bureau
- 1 - Knoxville (Info) (RM)
- 1 - New York (Info) (RM) (Enc. 6)
- 2 - Pittsburgh [REDACTED] (RM)
- 1 - WFO

REC-72

26  
JUN 20 1968

**SECRET**

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [REDACTED]

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[REDACTED]

During the course of the above review, the following items of interest to this investigation were noted: (S) (U)

AEC's 11/3/66 letter to the Bureau captioned "DR. ZALMAN MORDECAI SHAPIRO, RA-ISRAEL," which contained as an enclosure a "List of Foreign Governments and Private Firms Related to NUMEC." Availability of that list might be beneficial in the event a "third party relationship" is developed during the course of instant inquiry. (S) (U)

The security file on NUMEC contained the following among a listing of "Alien Visits to NUMEC" in 1965 and 1966: (S) (U)

JOSEPH EYAL and HILLEL ALDAAG (of the Israeli Embassy in Washington, D.C. (WDC)) regarding the 5 watt nuclear generators ordered by the Israeli Government. (S) (U)

MOSHE ARINTAY, an Israeli being interviewed regarding employment in the Israel Food Irradiation Facility. WFO indices are negative on ARINTAY. (S) (U)

A "~~Confidential~~" AEC memo dated 4/3/68 captioned "ALIEN PARTICIPANTS AT NUMEC" contains the following entry among others: (S) (U)

[BARUCH CINAI, Israel] (S) (U)

Born [REDACTED] Claims both Israeli and British citizenship. A Research Metallurgist from the Israeli AEC who reported at NUMEC in December, 1960 as a guest on an AEC contract. He terminated there in February, 1962, having worked in the main laboratory of the Plutonium Plant. (S) (U)

On CINAI, WFO indices show that on 1/22/62, according to [REDACTED] (S) (U)

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~~SECRET~~

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Born:  
Citizenship:  
Education:  
Employer:  
Occupation:  
Employment:

Israeli and British  
Ph.D. from Sheffield University  
Israel Atomic Energy Commission  
Researcher  
On behalf of Government of Israel

(U) (S) In attempting to determine the identities of other Israelis employed at NUMEC since its origin, SA HOMER W. SCHWEPPE was advised by RALPH J. JONES in the Office of Safeguards and Materials Management, that he was not aware of any personnel lists at AEC on NUMEC. He pointed out; however, that during the past fiscal year AEC has pursued a "Resident Inspection Test Program" at the NUMEC facilities. JONES believed the AEC personnel on duty at NUMEC were temporary and that individuals rotated in and out during the past year. He was not aware of the specific identities of any personnel so involved but agreed that those at NUMEC on that assignment very probably might be good sources of information in instant inquiry. He noted that the following from AEC at Oak Ridge, Tennessee, were in charge of the program and would be able to provide some assistance: CHARLES A. KELLER, Director, Production Division; and ED MARSHALL, Chief, Nuclear Management Branch. Since this particular program expires at the end of fiscal 1968, it might behoove the office of origin to make an immediate approach to the AEC Resident Inspection Staff still on duty to see what assistance they can provide in this case.

(U) (S) The information attributed to [redacted] as disseminated in the future, should be only on a "need to know" basis and paraphrased and classified "Secret" to avoid "leakage" due to the highly sensitive nature of the information. In the event of downgrading it should be classified "Confidential" since it

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b7E

~~SECRET~~



UNITED STATES GOVERNMENT

# Memorandum

~~CONFIDENTIAL~~  
~~SECRET~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-TSM/RIPLG)  
DATE 08-03-2017 BY: [REDACTED]

b6  
b7C

TO DIRECTOR, FBI (117-2564)

FROM SAC, NEW YORK [REDACTED]

DATE: 6-28-68

b3  
b7E

SUBJECT DR. ZALMAN MORDECAI SHAPIRO  
IS-ISRAEL, (R)  
ATOMIC ENERGY ACT  
(OO:PG)

#mo3 R0158 8-19-03  
60290 BCE/MLT/JTG  
6  
AS AMENDED

Classified By ~~SP-1 SLD/RA~~  
Declassify on: ~~OADR~~  
4-28-85

ReBuairtel to PG, 5/20/68 and WFO letter to the Bureau 6/13/68.  
In accordance with referenced Bureau airtel, [REDACTED]

b3  
b7E

(S) (U)  
With reference to WFO letter to the Bureau, 6-13-68, it is noted that on 6-28-68, MARY PICCININNI, Secretary to the Chief of Personnel Security, United States Atomic Energy Commission (AEC) 376 Hudson Street, NYC, advised that the subject's file, WA 118492, was sent to AEC, Washington, D.C. on 3-13-68.

LEAD

WASHINGTON FIELD

WFO will review the subject's AEC file for information pertinent to instant inquiry.

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 03-29-2019 BY: [REDACTED]

REC-63

b6  
b7C

10 JUL 1 1968

b3  
b7E

2-Bureau (117-2564)  
2-Pittsburgh [REDACTED]  
2-WFO [REDACTED]  
1-New York [REDACTED]

AC:slf

Class. & Ex By SP-1 GSK/RBG  
Reason - FCIM II, 1-2.4.2  
Date of Review 6-28-88  
217,822

54 JUL 11 1968

~~CONFIDENTIAL~~  
~~SECRET~~

NAT. INT. SEC.  
ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan





~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

Source stated that several years ago he read an article in the "Wall Street Journal" which related the fact that NUMEC had sustained unaccountable losses of nuclear material and that this disclosure did not come as a surprise to him or [redacted] acquainted with Shapiro and the general security of NUMEC. Source explained that it was rather common knowledge among those individuals acquainted with the security aspect of nuclear work that security conditions at NUMEC were substandard. Source advised that Shapiro set up NUMEC with very little capital. The original location of NUMEC was located in a building in Apollo, Pa., believed to have been purchased by Shapiro at a nominal cost from the Apollo Steel Company. Source related that NUMEC was considered to be a boom to Apollo, which was a depressed area, inasmuch as it offered employment to the unemployed in the Apollo area. Source said that Shapiro was credited with being the engineering genius behind the development and manufacturing of U235 at NUMEC. Source stated that NUMEC has expanded their operations during the past several years to include a large advanced nuclear plant approximately eight miles from the original nuclear plant in Apollo. Source went on to say, however, that he believed NUMEC has experienced financial difficulties, which in view of their apparent progress, is not quite understandable. Source said Shapiro was known to be interested in the stock market and reportedly has done quite well financially in stock investments. Shapiro is further reported to have many diversified financial investments and has maintained the reputation of placing his own interest before any company with which he is affiliated.

Source advised that he was not in a position to furnish the identities of any employees at NUMEC. He said he knew of no connection between the subject or NUMEC with any foreign government or its representatives. In conclusion, he added that he was not in a position to further comment concerning Shapiro's associates or loyalty to the United States.

~~SECRET~~



~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

On June 21, 1968, a second source, contact with whom has been insufficient to judge the reliability of his information, but who is [redacted] in a position to furnish information concerning the activities of Shapiro and who is described by his associates as being reliable and a respectable individual, advised that to date he has heard of no plans on the part of Shapiro to leave the United States for the purpose of visiting a foreign country. Second source stated, however, that he recently learned that David Lowenthal, President of Raychord Corporation and a long-time, personal friend of Shapiro, contemplates visiting Israel some time during the first week of July, 1968. He said Lowenthal's trips to Israel are normally about one week in duration.

b7D

Second source advised [redacted] that Lowenthal is married and has two teenage children; and that he reportedly deals heavily in the stock market. He advised that Lowenthal is the owner of a 1967 gold Pontiac Bonneville convertible and a 1968 Pontiac Firebird convertible.

Second source advised that prior to coming to Apollo, Pa., Lowenthal was employed by the Mount Vernon Bridge Company, Mount Vernon, Ohio. He also worked at one time with a steel fabricating company in New York, name of the company unknown, and was, in some way, connected with one Mike Berlin, of Berlin Steel, New York, during the Korean War. Source furnished the following description of David Lowenthal:

Race	White
Sex	Male
Age	Between 40-45
Height	5'8"
Weight	190 pounds
Hair	Dark, graying
Characteristics	Smokes cigars and has a very bad cough

~~SECRET~~



~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

A review of the Pittsburgh City Directories from 1943 through 1967 disclosed the following information concerning David L. Lowenthal:

Lowenthal was first referred to in the 1946 Directory, at which time he was shown to be a salesman residing at 6223 Nickolson, Pittsburgh.

In 1950, Lowenthal was shown to be a salesman for Federal Paper Company and residing at 6223 Nickolson Street, Pittsburgh.

In 1954, he was shown to be employed as Vice President, Mount Vernon Bridge Company, and residing with his wife, Rita F. Lowenthal, at 5710 Woodmont, Pittsburgh.

In 1955, he was shown to be employed as a salesman for the Apollo Steel Company and to reside with his wife, Rita F., at 5517 Kamin, Pittsburgh.

In 1956, he was shown to be employed as a secretary-treasurer, Apollo Steel Company, and residing at 5517 Kamin Street Pittsburgh.

In 1958, Lowenthal was shown to be secretary-treasurer, Apollo, Industries, Inc., Apollo Steel Company, and Mount Vernon Sales Company, and to reside at [redacted] Pittsburgh.

In 1967, David Lowenthal was shown to be employed as President, Apollo Industries, Inc., and residing [redacted] Pittsburgh.

On June 19, 1968, the records of the Clerks Office, United States District Court, Naturalization Section, United States Post Office and Courthouse Building, Pittsburgh, Pa., were checked with negative results concerning David L. Lowenthal.

On June 19, 1968, Mrs. Mary Greene, Clerk-Stenographer, United States Immigration and Naturalization Service, 2130 Federal Building, Pittsburgh, advised that her records contain no information concerning David L. Lowenthal.

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~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

On June 20, 1968, records of the Office of Prothonotary, Court of Common Pleas, City-County Building, Pittsburgh, were reviewed with negative results concerning David L. Lowenthal.

On the evening of June 4, 1968, a Special Agent of the Federal Bureau of Investigation observed a black-haired youth leave the residence of [redacted] Pittsburgh, and enter a light blue Volkswagen sedan, bearing Pennsylvania license 2A6 653.

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The 1965 issue of "Pennsylvania Motor Vehicle Registration, Bulletin No. 42," lists Pennsylvania 2A6 653, as being assigned to Blanche Siebert, of 2318 Murray Avenue, Pittsburgh, Pa.

The 1968 Pennsylvania Street Address - Telephone Directory lists Albert Siebert, at 2318 Murray Avenue, Pittsburgh, Pa.

Records of Voters Registration Bureau, County Office Building, Pittsburgh, Pa., as checked on June 7, 1968, disclosed that Albert Siebert, of 2318 Murray Avenue, Pittsburgh, Pa., was born June 1, 1913, New York, and described him as a white male, 5 feet 7 inches tall, brown eyes, and brown hair.

On June 7, 1968, Mrs. Jean Rodriguez, receptionist, Credit Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised that her records show that Albert Siebert, wife Blanche, have resided at 2318 Murray Avenue, Pittsburgh, since 1939. Albert Siebert was shown to be a grocery manager, Harris and McKeever, 1224 Carson Street, Pittsburgh, and that Blanche was employed at Klynn's Ladies Apparel, Homestead, Pa. She advised that her records further show that the Sieberts maintained a satisfactory credit rating with that bureau.

On June 7, 1968, Thomas A. McQuaide, Chief, Identification Section, Pittsburgh Police Department, and Clarence Klein, Chief Identification Officer, Allegheny County Detective Bureau, both Pittsburgh, advised that their records contained no identifiable information concerning Albert or Blanche Siebert.

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~~SECRET~~  
UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

Pittsburgh, Pennsylvania  
June 27, 1968

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In Reply, Please Refer to  
File No.

~~#m03R0758~~ 8-1903  
60090 BCE/mj/75  
6  
AS AMENDED

DR. ZALMAN MORDECAI SHAPIRO

Investigation was instituted at the request of the Attorney General to establish the nature and extent of Zalman Mordecai Shapiro's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States. [REDACTED] (S) (U)

On June 28, 1968, a source, who has furnished reliable information in the past, advised that although he is not personally acquainted with Zalman Shapiro he has known of him since 1957 and has on two occasions visited the Nuclear Materials Corporation (NUMEC) facilities at Apollo, Pa.

Source advised that Shapiro was formerly employed at Bettis Atomic Power Division, Westinghouse Electric Corporation (WEC), Pittsburgh, Pa., and terminated this employment to set up NUMEC. At the time Shapiro terminated his employment with Westinghouse, his relations with Westinghouse or his immediate supervisors or both were believed to be other than amiable. Source advised that he was not in a position to elaborate further concerning this remark, but that some of Shapiro's former associates at Westinghouse might be in a better position to elaborate further concerning his relationship with Westinghouse at the time he terminated his employment with that company.

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

~~SECRET~~  
~~GROUP 1~~  
Excluded from automatic  
downgrading and  
declassification

117-2564-2

8/25/82  
5600-100-105  
4-A-15  
6/10/83  
6/16/87  
Comp #124,417



UNITED STATES GOVERNMENT

# Memorandum

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TO :

DIRECTOR, FBI (117-2564)

DATE: 6/27/68

FROM :

SAC, PITTSBURGH [REDACTED] (P)

SUBJECT:

DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL; (S) (U)  
ATOMIC ENERGY ACT

comp # 204,451

Re Pittsburgh letter to Bureau dated 6/13/68,  
and Washington Field letter to Bureau dated 6/13/68.

Enclosed herewith for the Bureau are 5 copies of  
a letterhead memorandum dated and captioned as above. Two  
copies of LHM being furnished to both New York and Washing-  
ton Field Offices.

Enclosed LHM is being classified "Secret" because  
unauthorized disclosure of this information reflecting an  
FBI investigation of subject could be detrimental to the  
national security interests of this Government. (S)(U)

Referenced Washington Field letter set forth the  
identity of one JIM LOVETT, whose name was provided by  
personnel, Security Division, Atomic Energy Commission (AEC),  
Germantown, Md., as a former AEC employee and a current  
employee at NUMEC, Apollo, Pa., who would be worthy of  
contact in this matter.

In this connection, on 6/24/68, SA WILLIAM T. HENDON, JR.,  
Resident Agent of Indiana, Pa., which covers Apollo, Pa.,  
conducted a background investigation at NUMEC regarding,  
"EMANUEL ROY MORGAN, NY 49774 WA, aka Manny, AEA - A."  
SA HENDON contacted BRUCE RICE, Security Officer, at NUMEC,  
who recommended that MORGAN's immediate supervisor,  
Mr. JAMES EVERETT LOVETT, Manager of the Nuclear Materials  
Control Department at NUMEC, be contacted regarding MORGAN.  
RICE commented that LOVETT was a dedicated, responsible,  
and conscientious employee.

REC-56

- 2 - Bureau (Enc 5) (RM)
- 2 - New York [REDACTED] (Enc. 2) (RM)
- 2 - Washington Field [REDACTED] (Enc. 2) (RM)
- 1 - Pittsburgh

DFW/emq  
(7)



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

JUL 23 1968

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[redacted]

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During the course of the interview with LOVETT concerning MORGAN, LOVETT volunteered the following information:

He advised that he, LOVETT, was in charge of the accountability of nuclear materials at NUMEC and that NUMEC had an inventory of approximately \$40,000,000 worth of nuclear materials. Approximately one half of these nuclear materials were maintained at the plant on North Warren Avenue in Apollo, Pa., across from the Administrative Office and the other half of these nuclear materials was maintained at a Plutonium Plant on Route 66, near Leechburg, Pa. LOVETT stated that he has been employed by NUMEC in the aforementioned capacity since approximately 1966 and had previously worked as an inspector for the Atomic Energy Commission and had inspected NUMEC once a year for approximately five years while in this position.

During the interview, Mr. LOVETT appeared to be very cooperative and to be a sincere, conscientious, and dedicated individual. It also appeared to SA HENDON that LOVETT had something further on his mind on which he expected to be questioned. However, nothing further was discussed with LOVETT other than that set forth above and background information regarding MORGAN.

Upon completion of the investigation by the Pittsburgh Office of JAMES EVERETT LOVETT, Pittsburgh will consider the advisability of contacting LOVETT away from his place of employment concerning the subject.

[redacted] who currently resides at [redacted]  
[redacted]

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SA GLAZE has found [redacted] to be an individual of high integrity and a loyal American citizen. SA GLAZE is of the opinion that [redacted] would place patriotism to his country over loyalty to his employer. He is further of the opinion that he could contact [redacted] on a confidential basis concerning subject.



[redacted]

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[redacted] The following investigation was conducted concerning [redacted]

On 5/31/68, Mrs. SHIRLEY BLAKE, Secretary, Westmoreland County District Attorney's Office, Westmoreland County Court House Building, Greensburg, Pa., advised that a review of the District Attorney's Office records disclosed no arrest information identifiable with [redacted] or any variation of that name.

b7D

On 6/7/68, Miss JAYNIE KEENAN, Clerk, Greensburg Credit Bureau, North Main and West Otterman Street, Greensburg, Pa., advised that a review of the local credit records disclosed that [redacted]

[redacted]  
[redacted] have been known to the local credit bureau since 1964 and enjoy a very good credit rating.

Miss KEENAN pointed out that [redacted]  
[redacted] in the Pittsburgh metropolitan area.

Miss KEENAN said the credit bureau records disclosed no additional background information identifiable with [redacted]  
[redacted]

On 6/7/68, the following sources were contacted and advised that review of their respective records disclosed no arrest information identifiable with [redacted]  
[redacted]

Trooper ARTHUR ZEPLIN,  
Bureau of Criminal Identification,  
Pennsylvania State Police,  
Greensburg, Pa.

PETER A. PIGNETTI,  
Chief of Police,  
Greensburg Police Department  
Greensburg, Pa.

The aforementioned investigation at Greensburg, Pa., was conducted by SA CYRIL J. LAFFEY.



[redacted]

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follows: Sources utilized in this LHM are identified as

Source  
First source is [redacted]

Location  
This letterhead memorandum.

[redacted]

(By Request)

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Second source is [redacted]

[redacted]

(by request)

[redacted]

LEAD

PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

Will continue to follow and report subject's activities.



~~CONFIDENTIAL~~  
~~SECRET~~

Date of Mail

7-1-62

Has been removed and placed in the Special File Room of Records Branch.

~~(S)~~(U)

See File 66-2554-7530 for authority.

Classified by  
Declassify on~~56830/K9~~

OADR

~~9-18-85~~#03 20758  
9-15-03

AUC 60290 BEE/mlt/316

Subject

JUNE MAIL

Removed By

993171968

File Number

Class. &amp; Ext. By

SP-1 GSK/RB6

Reason - FCIM II, 1-2.4.2

Date of Review

7-1-88

217,822

4-22-82

Permanent Serial Charge Out

~~SECRET~~~~CONFIDENTIAL~~



~~CONFIDENTIAL~~  
~~SECRET~~Date of Mail 7-4-68

Has been removed and placed in the Special File Room of Records Branch.

#03 R0758  
ADC 60290 BCE/mv/276  
9-15-03~~(S)~~  
~~(X)~~ (U)

See File 66-2554-7530 for authority.

Classified by 700334/KJ  
Declassify on: OADRSubject JUNE MAIL

Removed By

99 JUL 17 1968

Class. & Ext. SP-1/6JK/RBG  
Reason - FCIM II, 1-2.4.2 2+3  
Date of Review 7-8-88  
217,822 4-22-82File Number 117-2554-7530

Permanent Serial Charge Out

~~SECRET~~ ~~CONFIDENTIAL~~



~~SECRET~~~~CONFIDENTIAL~~Date of Mail June 1968

Has been removed and placed in the Special File Room of Records Branch.

#03 R0758

AXC 60290 BCL/mth/76

9-15-03

Classified by ~~54683 LDK~~  
Declassify on: ~~OADR~~  
4-15-83

See File 66-2554-7530 for authority.

Subject JUNE MAIL

99 JUL 17 1968

Removed By

Class. & Ext. By SP1 GSK/RB6

Reason - FCIM II, 1-2.4.2

Date of Review 4-22-82File Number 117 2307-335

217,822

~~CONFIDENTIAL~~

Permanent Security Charge Out

~~SECRET~~



~~SECRET~~  
~~CONFIDENTIAL~~Date of Mail 8-2-77

Has been removed and placed in the Special File Room of Records Branch.

#03 R0758 ADL 60290 BOE/OUT/3TG  
9-15-03Classified by ~~504850/19~~  
Declassify on: OADR ~~4-18-83~~

See File 66-2554-7530 for authority.

*Mr. Zalman Morduchai Shapiro*Subject JUNE MAIL3  
99 AUG 26 1968

Removed By

Class. &amp; Ext. By

Reason - FCIM II, 24.2

Date of Review

217,822

File Number

117-2514-26

Permanent Serial Charge Out

~~SECRET~~~~CONFIDENTIAL~~



~~CONFIDENTIAL~~b6  
b7CDECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-15-2017 BY: [redacted]

FBI

Date: 7/1/68

8-19-83  
CLASSIFIED BY 60390 BCS/mel/716  
DECLASSIFY ON 2016  
AS AMENDED

Transmit the following in \_\_\_\_\_  
(Type in plaintext or code)Via AIRTEL REGISTERED MAIL  
(Priority)

TO : DIRECTOR, FBI (117-2564)  
FROM : SAC, NEWARK [redacted] (RUC)  
SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS-ISRAEL; AEA  
OO: PITTSBURGH

Classified by [redacted]  
Declassify on OADR

NO COPY

RE: Pittsburgh airtel to the Bureau, 6/14/68,  
setting forth a lead for Newark to determine [redacted]

On 6/24/68, [redacted] who has furnished reliable  
information in the past, advised IC WILLIAM P. NUGENT [redacted]

Credit and Police Checks

On 6/25/68, ELIZABETH SAUSA, Receptionist, Garden  
State Credit Bureau, Clifton, N.J., advised IC GEORGE H. STURM,  
JR. that FRANK SHAFRAN and wife, JOAN SHAFRAN, resided at  
[redacted] as of June, 1968.

According to the records, FRANK SHAFRAN, has been  
employed as an engineer by Parsons Jurden (or Jorden) Corp.,  
New York, N.Y., for about one and one-half years and has an  
income of [redacted] No litigation is shown in the credit files.

- ③ - Bureau (RM)  
2 - Pittsburgh [redacted] (RM)  
1 - Newark  
WEJ:ss  
(6)

ALL INFORMATION CONTAINED  
HEREIN UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

REC-50

JUL 4 1968

Class. &amp; Ext. By SP-1 GSK/RBB

Reason - FCIM II, 1-2.4.2

Date of Review 2/7/82

Sent 2-22-82

NAT. IN. SEC. Per

51 JUL 18 1968

Special Agent in Charge

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~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~

~~SECRET~~



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On 6/25/68, Mrs. ELEANOR CAMPBELL, Clerk, Fair Lawn, N.J. Police Department, advised IC STURN this PD has no arrest record for FRANK SHAFRAN and his wife, JOAN.

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Files of the Newark Office contain no information identifiable with FRANK SHAFRAN, JOAN SHAFRAN or the Atlantic Chemical Company.

-2-

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~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~



~~CONFIDENTIAL~~Date of Mail 7/1/58

Has been removed and placed in the Special File Room of Records Branch.

(X)(U)

#03 R0758  
9-15-03  
AUC 60290 BCE/MLT/7TGClassified by 56683LD/KD  
Declassify on OADR

17-18-85

See File 66-2554-7530 for authority.

Subject JUNE MAILRemoved By RJB  
1068Class. & Ext. By PP-1 GSK/RD6  
Reason - FCIM II, 1-2.4.2  
Date of Review 217,822  
4-22-82

Permanent Serial Charge Out

~~CONFIDENTIAL~~





In Reply, Please Refer to  
File No.

~~SECRET~~  
UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

Pittsburgh, Pennsylvania

July 11, 1968

DR. ZALMAN MORDECAI SHAPIRO

Investigation was instituted at the request of the Attorney General to establish the nature and extent of Zalman Mordecai Shapiro's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States. (U)

On July 3, 1968, a source, who has furnished reliable information in the past, advised that to date, he has heard of no plans on the part of Shapiro to leave the United States for the purpose of visiting a foreign country. Source stated, however, that David Lowenthal, President of Raychord Corporation, and a long-time personal friend of Shapiro, left Pittsburgh, Pa., on or about July 2, 1968, for a trip to Europe and Israel. Source said he does not know the purpose of the trip nor the countries Lowenthal will visit while in Europe. Source stated that Lowenthal is expected to be gone for at least one week and possibly longer.

Source further advised that he has no knowledge of anyone accompanying Lowenthal on this trip to Europe. Source said he believed Lowenthal was to fly to New York City on the United Airlines, but had no knowledge of the airline he would utilize from New York to Europe.

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GROUP 1

Excluded from automatic  
downgrading and  
declassification

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

ENCLOSURE



~~SECRET~~

DR. ZAIMAN MORDECAI SHAPIRO

On July 3, 1968, a second source, who has furnished reliable information in the past, advised that he is not a personal acquaintance of subject, [REDACTED]

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[REDACTED] Second source advised that he also is acquainted with some current and a few former employees of the Nuclear Materials and Equipment Corporation (NUMEC) and is aware of the general background regarding certain activities of this company.

Second source advised that NUMEC was formed during approximately 1956 for the purpose of manufacturing nuclear fuels and other materials used in commercial nuclear power reactors. Second source said that for approximately eight years the Atomic Energy Commission (AEC) has sponsored NUMEC in their production, research and development of plutonium as a fuel material.

Second source said that during 1966, AEC conducted an inspection at NUMEC in an effort to determine the causes for the loss of a quantity of enriched uranium which occurred at NUMEC over an apparent period of several years.

Second source advised that following this inspection at NUMEC, an article appeared in the Paris, France, edition of the "New York Times," entitled, "U. S. Plant loses 100 Kilos of U235." This article was datelined Washington, September 18, 1966, and was written by John W. Finney. Second source advised that the article in general stated that the AEC had recently discovered that one of its industrial contractors had lost more than 100 kilograms of enriched uranium and enough to fabricate half a dozen atomic bombs.

The article indicated that the loss of this enriched uranium indicated that possibly inadequate controls were being utilized in this country in connection with nuclear materials. It also brought up the question as to how Communist China had recently obtained enriched uranium for atomic tests.

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DR. ZALMAN MORDECAI SHAPIRO

Second source advised that following the aforementioned news article, the Congress of the United States held hearings in Washington, D. C., and AEC promoted several meetings in connection with the problems of safeguards and nuclear materials management. At approximately the same period of time, an Ad Hoc Advisory Panel was established and during March, 1967, disseminated a lengthy report on the safeguarding of special nuclear materials, which was followed by the formation of the Division of Nuclear Materials Safeguard.

Following this action by AEC, Shapiro, in an apparent effort to improve the security conditions at NUMEC, hired James Everett Lovett, who had been on AEC's Inspection Team at the time of their inspection of NUMEC.

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DR. ZALMAN MOSELEL SHAPIRO

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Second source explained that it was also common knowledge among those individuals acquainted with the security aspect of nuclear work that security conditions at NUMEC have always been considered to be substandard.

Second source advised that concerning former employees at NUMEC, Frederick Forscher was Vice-President at NUMEC during the period in which losses of enriched uranium were reported to have occurred. Forscher at that time, was in charge of metallurgical work at NUMEC and is currently the manager of advanced Fuels, Atomic Power Divisions, Nuclear Field Divisions, Atomic Energy Division, Westinghouse Electric Corporation, Pittsburgh.

Second source advised that Floyd E. Joyner was employed at NUMEC from approximately 1957 to 1964, at which time he understood Joyner was fired. He said that it was his understanding that Joyner was employed as the Accountability Representative at NUMEC and was somewhat bitter about his being fired from that company.

Second source advised that he was not acquainted with the reason Joyner was fired by NUMEC.

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DR. ZALMAN MORDECAI SHAPIRO

During August, 1966, the Joint Committee on Atomic Energy, Congress of the United States, held a series of hearings on Atomic Energy Commission's proposed criteria for performing uranium enrichment services. The results of these hearings were published by the United States Government Printing Office, Washington, in 1966, in a report entitled, "Uranium Enrichment Services Criteria And Related Matters." This report indicates that Subject appeared as a witness before this committee on August 17, 1966. Subject presented his views to the committee concerning a proposed toll enrichment criteria and draft contracts and related steps then being taken by the Atomic Energy Commission to implement the 1964 private ownership of Special Nuclear Materials Act. Subsequent to being asked several questions concerning enriching foreign uranium, Subject was requested to submit answers in writing to several additional questions prepared by the committee. By letter dated September 26, 1966, subject furnished the committee these answers which included the following question and answer by subject:

"Q. (a) Do you believe that AEC's licensees are currently maintaining records and other controls pertaining to special nuclear material which are adequate for the purpose of safeguarding against diversion of such material to unauthorized uses?

(b) Do you think substantial improvements are needed in the AEC's regulations and procedures for safeguarding against diversion of special nuclear material in the hands of licensees?

(c) Do you think the AEC should specify (1) the material accountability and (2) the physical security procedures to be followed by AEC's licensees to safeguard against diversion?

(d) What are your views concerning the AEC's recently announced proposed changes in its regulations concerning safeguarding against diversion?

"A. We believe that, by and large, the records and other controls maintained by AEC's licensees are, and have been, effective in safeguarding

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DR. ZALMAN MORDECAI SHAPIRO

"against the diversion of special nuclear material to unauthorized purposes.

"To the extent that the present system can be improved by modifications in regulations and procedures, we believe that the changes recently proposed by the AEC are clearly a step in the right direction. These changes would, in general, bring all special nuclear material, regardless of ownership status, under a system of control very similar to that which now governs material held on a station or contract basis. We believe these requirements are entirely in order and that they will not impose a serious financial or other burden on fuel suppliers.

"We believe that it would be helpful if the AEC would specify some minimum standards for acceptable materials accountability and physical security procedures. Such standards would be useful as guidelines for the development of detailed accountability and security procedures by individual companies."

On June 12, 1968, a third source, who has furnished reliable information in the past, advised that



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DR. ZALMAN MORDECAI SHAPIRO

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[REDACTED]

On June 24, 1968, a fourth source, who has furnished reliable information in the past, advised that [REDACTED] is the address of Frank Shafran, and 10 Kingsley Street, Nutley, New Jersey, is the address of the Atlantic Chemical Company.

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Frank Shafran

On June 25, 1968, Elizabeth Sausa, Receptionist, Garden State Credit Bureau, Clifton, New Jersey, advised that Frank Shafran and wife, Joan Shafran, resided at [REDACTED] as of June, 1968. Frank Shafran has been employed as an engineer by Parsons Jurden (or Jorden) Corporation, New York, New York, for about one and one half years and has an income of [REDACTED]. No litigation is shown in the credit files.

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A review of the current Criss-Cross Telephone Directory for Vandergrift and Export, Pa., disclosed that [REDACTED] is the address of James Everett Lovett. The address of [REDACTED] is that of Sylvester A. Weber and 111 Custer Avenue, Vandergrift, Pa., is the address of Fitz-Martin Buick Company.

- 7 -  
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DR. ZALMAN MORDECAI SHAPIRO

James Everett Lovett

On July 10, 1968, Mrs. Dorothy Wertz, Clerk, Jeannette Credit Bureau, Jeannette, Pa., advised that her records disclosed that James Everett Lovett, born [redacted] wife - Ruth Lovett, currently resides at [redacted]

[redacted] These records indicate that Lovett is employed as Manager, Nuclear Materials and Equipment Corporation, Apollo, Pa. He formerly resided at 434 College Park Drive, Monroeville, Pa., and was employed from 1954 to 1965 as a Physical Scientist by AEC at Damascus, New York, where he resided at 8935 Que Road, Damascus, New York. Records further disclose that James Lovett originally came from [redacted] and has previously resided at 1317 Boatright, Albuquerque, New Mexico.

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Sylvester A. Weber

On July 10, 1968, Mrs. Dorothy Wertz, Clerk, Jeannette Credit Bureau, Jeannette, Pa., advised that her records disclosed that Sylvester A. Weber, age [redacted] and wife, Anna Mae Weber, reside with their five children at [redacted] and have resided at that address since October, 1967. Records indicate that Weber was employed as an engineer for ten years at NUMEC, Apollo, Pa. His credit standing with that bureau was shown as satisfactory.

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On April 7, 1953, Sylvester Andrew Weber executed a Personnel Security Questionnaire (PSQ) for the Atomic Energy Commission, on which he listed his date and place of birth as [redacted] at [redacted]. He indicated that he was residing at [redacted]. [redacted] was married, wife's name Anna Mae Skrak Weber. He attended Carnegie Tech, Pittsburgh, Pa., from 1950 to 1953.

David L. Purdy

On June 18, 1968, Miss Carol Andyshak, Clerk, Indiana Credit Bureau, Indiana, Pa., advised that her records disclosed that David L. Purdy and wife, Margaret R. Purdy, currently reside at [redacted]

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- 8 -  
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DR. ZALMAN NOBBERI - RAPID

and have been known to their files since 1964. Purdy is employed at NUMEC, Apollo, Pa. He was previously employed by General Electric Corporation in Philadelphia, Pa., and is originally from Marysville, Pa. Records show that Purdy was [ ] years of age in [ ] and is the father of four children. His credit standing with that bureau is considered good.

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A review of the current Criss-Cross Telephone Directory for Johnstown, Pa., disclosed that 1334 Luzerne Extension, Johnstown, Pa., is the address of Isadore Glosser.

Isadore Glosser

On June 24, 1968, Mrs. Kay Weaver, Credit Bureau, Johnstown, Pa., advised that Isadore Glosser currently resides at [ ] Pa., and is one of the owners of the Glosser Brothers Department Store, Johnstown, Pa. She indicated that Glosser's credit record indicates that he maintains an excellent credit standing with that bureau.

On July 10, 1968, a fifth source, who has furnished reliable information in the past, advised that he has known Isadore Glosser for many years and that he and other members of his family are reputed to be millionaires. He advised that the Glosser family are active in Jewish organizations in the Johnstown area, including the B'nai B'rith. He advised that Isadore Glosser and other members of his family own and operate numerous business establishments in the City of Johnstown and all are of good reputation.

The December 12, 1963, issue of the "Johnstown Tribune Democrat," a daily newspaper of general circulation in the Johnstown area, reported that Isadore Glosser was Chairman of the United Jewish Appeal for the 1963-64 season.

The October 2, 1963, issue of the aforementioned newspaper disclosed that Isadore Glosser was awarded the annual Solomon Schochter Award for outstanding services to the local Jewish Synagogue for the year 1963. The article indicated that Glosser, at that time, was Chairman of the Board of Directors of the Synagogue.

- 9 -  
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DR. ZALMAN MORDECAI SHAPIRO

The 1967 11th edition of "American Men of Science," a biographical directory, on Page 4845 reported that Dr. Zalman Mordecai Shapiro was born May 12, 1920, in Canton, Ohio; that he was married in 1943, father of three children; received a Bachelor of Arts Degree from John Hopkins University in 1942. The article indicated that Shapiro received the Woodyear Scholarship from the Standard Oil Company of Indiana in 1945, and in the same year received his Master of Arts Degree from John Hopkins. In 1948, he received a Ph.D Degree from John Hopkins in the field of Physical Chemistry. He was a Research Associate at John Hopkins from 1942 to 1946, and a Junior Instructor in Chemistry at John Hopkins from 1946 to 1948. He was Senior Scientist in the Research Laboratory of Westinghouse Electric Corporation, Bettis Atomic Power Division, from 1948 to 1949. From 1949 to 1950, he was Supervisory Scientist at this location. From 1950 to 1953, he was Manager of the Physical Chemistry Section at the aforementioned Corporation. From 1953 to 1954, he was in the Chemical Metallurgy Section, 1954 to 1955, Assistant Manager, Reactor Design Subdivision of Westinghouse and from 1955 to 1957, President, Nuclear Materials and Equipment Corporation. In 1957, he was President, Nuclear Decontamination Corporation, Isotope and Radiation Enterprises Limited. His address as of 1967 was listed as Nuclear Materials and Equipment Corporation, Apollo, Pa.

- 10\* -  
~~SECRET~~



UNITED STATES GOVERNMENT

# Memorandum

BR 758 81903  
60210 B/E/MH/1  
6  
AS AMENDED

TO : DIRECTOR, FBI (117-2564)

Classified by ~~566851P40~~  
Declassify on: OADR

DATE: 7/11/68

FROM : SAC, PITTSBURGH [REDACTED] (P)

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAELI (S) (U)  
ATOMIC ENERGY ACT

SA 4 Jm/palm  
7/11/8P 2,3  
7/16/81  
Comp. # 204,457

Re Pittsburgh letter to Bureau, dated 6/27/68, and Pittsburgh airtels to Bureau, dated 6/14 and 6/20/68, and Newark airtel to Bureau, dated 7/1/68.

Enclosed herewith for the Bureau are five copies of an LHM, dated and captioned as above. Two copies of LHM are being furnished to both New York and Washington Field Office.

Enclosed LHM is being classified "~~Secret~~" because unauthorized disclosure of this information reflecting an FBI investigation of subject could be detrimental to the national security interests of this Government. (S) (U)

[REDACTED] was contacted on 7/3/68, by SA E. CLEON GLAZE.

[REDACTED] who was contacted by SA DONALD F. WISEMAN on 7/3/68, [REDACTED]

[REDACTED]

Credit records at Garden State Credit Bureau, Clifton, New Jersey, were checked by IC GEORGE H. STRUM, JR. [REDACTED] was contacted by IC WILLIAM P. NUGENT.

- 2-Bureau (Enc. 5) (RM)
- 2-New York [REDACTED] (Enc. 2) (RM)
- 2-Washington Field [REDACTED] (Enc. 2) (RM)
- 2-Pittsburgh

DFW:psa  
(8)

ENCLOSURE

REC-35

25 JUL 15 1968

NAT. INT. SEC.



5010-108-02

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



[redacted]

b3  
b7E

Investigation at Vandergrift and Jeannette, Pa.,  
was conducted by SA CYRIL J. LAFFEY.

Investigation at Indiana, Pa., was conducted by  
SA WILLIAM T. HENDON, JR.

Investigation at Johnstown, Pa., was conducted by  
SA JOHN S. HUGHES, who contacted [redacted]  
[redacted]

b7D

Appropriate arrest records were checked concerning  
individuals mentioned in LHM with negative results. Files of the  
Newark Office contain no information identifiable with FRANK  
SHAFRAN or the Atlantic Chemical Company. Files of the  
Pittsburgh Office contain no identifiable information regarding  
DAVID L. PURDY, JAMES EVERETT LOVETT, Fitz-Martin Buick Company,  
or ISADORE GLOSSER. It is noted that JAMES EVERETT LOVETT  
has been previously mentioned in connection with this matter.

<u>Source</u>	<u>Location</u>
First source is [redacted] [redacted] (by request)	Enclosed LHM
Second source is [redacted] [redacted] Pittsburgh, Pa. (by request)	"
Third source is [redacted] [redacted]	[redacted]
Fourth source is [redacted]	[redacted]
Fifth source is [redacted] [redacted] au, [redacted] (by request)	Enclosed LHM

b7D  
b3  
b7E



SAC, WFO [redacted]

7/30/68

Director, FBI (117-2564) --

EX-100  
100-122

1 - Mr. J.F. Wacks

b3  
b7E

DR. ZALMAN MORDECAI SHAPIRO  
[IS - ISRAEL] (S) (U)  
ATOMIC ENERGY ACT

#m0300758 8-19-03  
CLASSIFIED BY 60310 BCE/MT/116  
DECLASSIFY ON 6  
AS AMENDED

RePG 6/27 and 7/11/68 letters containing informa-  
tion concerning David Lowenthal.

Obtain available information at Passport Office,  
State Department, with respect to Lowenthal.

1 - Pittsburgh [redacted]

APPROPRIATE AGENCIES  
AND FIELD OFFICES  
ADVISED BY ROUTING  
SLIP(S) OF Class  
DATE 10/5/81 D.T.

b3  
b7E

JFH:wmk Wmk  
(5)

NOTE:

Subject is the head of Numec, Apollo, Pennsylvania,  
which processes uranium-235. In the past he has been in  
contact with Israeli Government officials and we are investi-  
gating to determine whether [redacted]

b7E  
b7D

[redacted] Lowenthal  
is a close personal friend of subject's and closely associated  
with high ranking officials in the Israeli Government [redacted]

[redacted] He  
occupies the same building as Numec. During the early part  
of July he traveled to Israel. [redacted]

MAILED 19  
JUL 29 1968  
COMM - FBI

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

54 AUG - 11 1968

MAIL ROOM ☐ TELETYPE UNIT ☐

20/10/1/100  
5-25/82  
5-6/84/540/100  
SP-4 [signature]  
7/30/88  
7/16/81  
Comp # 204, 451



~~CONFIDENTIAL~~

b6  
b7C

UNITED STATES GOVERNMENT

# Memorandum

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-15-2017 BY:  

TO : DIRECTOR, FBI (117-2564)

DATE: 7/15/68

FROM : SAC, PHILADELPHIA   (P)

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL; AEA  
(OO: PITTSBURGH)

Classified By *SP16SK/RB6*  
Declassify on *OADR*

Re Pittsburgh airtel to Bureau 6/14/68.

On 6/27/68,   (Protect)  

b6  
b7C  
b7D

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. & Ext. By *SP16SK/RB6*  
Reason - FCIM II, 1-2.4.2  
Date of Review *7-15-88*  
*217,822* *4-20-82*

The above information was obtained on a confidential basis and should not be made public without the issuance of a subpoena duces tecum directed to  

b7D

- 2 - Bureau (117-2564) (RM)
- 2 - Pittsburgh   (RM)
- 2 - Philadelphia

REC-75

b3  
b7E

BJT:LMH  
(6)

25 JUL 17 1968

54 JUL 24 1968

~~CONFIDENTIAL~~

NAT. INT. SEC.



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



~~CONFIDENTIAL~~

[redacted]

b3  
b7E

Files of the Philadelphia Office contain  
nothing identifiable with [redacted] or [redacted]

b7D

LEADS

PHILADELPHIA:

AT SPRINGFIELD, PA.

[redacted] Will through established sources identify [redacted]

AT SHARON HILL, PA.

Will conduct same investigation as indicated above  
for [redacted]

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~#m03A0758 8/20/03  
CLASSIFIED BY 60210 BCE/nrt/jtg  
DECLASSIFY ON: 25X 6  
AS AMENDED

FBI

Date: 7/18/68

Transmit the following in \_\_\_\_\_

(Type in plaintext or code)

Via AIRTELREGISTERED MAIL

(Priority)

Classified by ~~5466210/119~~  
Declassify on: OADR

TO : DIRECTOR, FBI (117-2564)

FROM : SAC, NEW YORK  SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS-ISRAEL (S) (S) (U)  
ATOMIC ENERGY ACTALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISEClass. & Ext. By SP-1 GSK/RB6  
Reason - FCM II, 1-2.4.2  
Date of Review 2-17-82 4-23-82b3  
b7E

ReBuairtel to New York, 7/16/68, with cc to Pittsburgh.

b7D

EX-103 REG-24  
Pittsburgh will endeavor to determine  
at Pittsburgh, Pennsylvania.Above information furnished by   on 7/18/68.

cc. Bishop

3-Bureau (RM)

2-Pittsburgh   (RM)

1-New York

AC:mfw (212)

(757) AUG 2 1968

Approved:   Special Agent in Charge

Sent \_\_\_\_\_ M Per \_\_\_\_\_

WAT. JRS SEC.

b3  
b7E

61 JUL 25 1968

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

OPTIONAL FORM NO. 10  
MAY 1962 EDITION  
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

# Memorandum

#m03 R0758 8/20/63  
60290 BCE/MT/2TG  
6  
AS Amended

TO : DIRECTOR, FBI (117-2564)

DATE: 7/23/68

FROM : SAC, NEW YORK [redacted]

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

b3  
b7E

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
ATOMIC ENERGY ACT  
(OO: PG)

Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM 11.4.2  
Date of Review 12-23-88  
217,822 4-23-82

RePGlet to the Bureau, 7/11/68 and PGlet to the Bureau, 6/14/68.

PG LHM dated 7/11/68 reflects on page 2 that an article appeared in the Paris, France edition of the "New York Times" entitled "U.S. Plants Losses 100 Kilos of U235" dated 9/18/66 and written by JOHN W. FINNEY.

On 7/19/68, JAMES POST, Supervisor, Information Bureau, "New York Times", 229 W. 43rd St., NY, NY, advised that the NY edition of the "New York Times" for 9/18/66 carried an article entitled "Uranium Losses Spur Drive for Tighter U. S. Control of Fissionable Materials" by JOHN W. FINNEY. POST stated that this was undoubtedly the same article as appeared in the Paris edition, but the Paris edition probably cut the article down and retitled it as is usual in many instances.

Transmitted herewith for the information of the PG Office is a Xerox copy of the above article obtained from POST.

b7D

PG letter to the Bureau, dated 6/14/68 requested

Classified by SP-6 BJS/120  
Declassify on: OADR

2-Bureau (RM)  
2-Pittsburgh [redacted] (Enc. 1) (RM)  
1-New York

REC-34

AC:kxb  
(5)

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-15-2017 BY: [redacted]

b3  
b7E

54 AUG - 7 1968

~~CONFIDENTIAL~~

NAT. INT. SEC.

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b7C



5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



~~CONFIDENTIAL~~

[REDACTED]

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b7E

[REDACTED]

b7D

~~(u)~~ [REDACTED] is the file of "RADIATION APPLICATIONS, INC.; IS-R". This file reflects that MUNROE F. POFCHER is the Chairman of the Board and President of Radiation Applications, Inc. This file also reflects that it has been ascertained that this company is a corporation specializing in nuclear, chemical and plastics research product development and are consultants for industrial organizations and government agencies. POFCHER was born in [REDACTED] in the US, received a BS degree from NYU and a law degree from Harvard University. He was employed as an attorney in the General Counsel Office, Atomic Energy Commission, from 1949 to 1953. As of 1959, he was a partner in the law firm of Pofcher, Schlusel and Katcher, 370 Lexington Ave., NY, NY.

b3  
b7E  
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b7C

The above information concerning POFCHER and Radiation Applications, Inc. was obtained from [REDACTED] in 1961.

- 2 -

~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~



UNITED STATES GOVERNMENT

~~CONFIDENTIAL~~

# Memorandum

ALL FBI INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 08-30-2017 BY: [REDACTED]

TO : DIRECTOR, FBI (117-2564)

FROM : SAC, KNOXVILLE (117-326) (RUC)

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
AEA  
(OO: PITTSBURGH)

DATE: 7/22/68

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. & Ext. By SP-1 GSK/RB6

Reason - FCIM II, 1-2.4.2

Date of Review 7-22-88

217,822

4-23-82

Re WFO letter to Bureau dated 6/24/68.

Review of the AEC Security files on ZALMAN MORDECAI SHAPIRO reveal that the following clearances have been extended by the AEC, Oak Ridge, for SHAPIRO:

On 2/13/59 for the Oak Ridge National Laboratory (Subcontract to Nuclear Materials and Equipment Corporation);  
On 1/14/63 Nuclear Materials and Equipment Corporation

On 7/8/68, Mr. RICHARD R. PEGLAR, Assistant Chief, Personnel Security Branch, Security Division, U. S. Atomic Energy Commission, Oak Ridge, Tenn., advised that the Visitor Control Section of AEC Security reveals the following approved visits of a classified nature by ZALMAN M. SHAPIRO:

Dates	Person Visited	Purpose of Visit
11/29/67 - 12/1/67	JACK E. CUNNINGHAM, Oak Ridge National Laboratory	To attend 14th Annual Metals and Ceramics Division Information Meetings (accompanied by SEMOUR H. SMILEY)
7/17-18/68	S. SMILEY, K-25 Plant	Feed Materials Discussions (accompanied by CHARLES W. SHOWALTER and HAROLD J. GARBER)

- 2 - Bureau (117-2564) (RM)
- 2 - Pittsburgh (RM)
- 1 - New York (info) (RM)
- 1 - WFO (info) (RM)
- 1 - Knoxville (117-326)

HAQ:cc 2-1068

57 JUL 23 1968

~~CONFIDENTIAL~~

REC 43

JUL 24 1968

NAT. SEC.

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



~~CONFIDENTIAL~~

KX 117-326

<u>Dates</u>	<u>Person Visited</u>	<u>Purpose of Visit</u>
7/17-18/67	B. ROBINSON, AEC	Discuss Conversion of Yellow Cake into Uranium Hexafluoride (accompanied by SYLVESTER A. WEBBER)
12/6/65	JACK CUNNINGHAM, Oak Ridge National Laboratory	Attend Metals Informa- tion Meeting
5/25-26/65	W. O. HARMS, Oak Ridge National Laboratory	9th AEC Coded Particle Fuels Working Group Meeting (accompanied by BENEDICT L. VONDRA, JR.)
3/17-18/64	Dr. HERMAN ROTH, AEC	Discuss Hanford Fission Product Recovery Program (accompanied by HAROLD J. GARBER)
6/17/63 - 6/17/64	CHARLES KELLER, AEC (Classified visits)	Scrap Recovery Contracts (accompanied by LEONARD P. PEPKOWITZ and FREDERICK FORSCHER)

On 7/8/68, Mr. PEGLAR advised that he had no record of any approvals of visits by the following: (S) (U)

JOSEPH EYAL, MOSHE ARINTAY, BARUCH CINAI (S) (U)

Mr. PEGLAR advised that on May 10 and 11, 1966, H. ALDAAG, an Israeli citizen of the Israeli Embassy, and a Dr. A. KEINAN of Jerusalem, of the National Council for Research, visited IRVING SPIEWAK, Oak Ridge National Laboratory, to discuss the desalination program (unclassified). (S) (U)

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

KX 117-326

If the Bureau or the office of origin desires any further investigation of Knoxville, it should be requested. - RUC.

- 3 -

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~Date of Mail 7/19

Has been removed and placed in the Special File Room of Records Branch.

(S)(U)

#03R0758  
1-15-03  
AUC 60380 BCD net 176

See File 66-2554-7530 for authority.

Subject JUNE MAILClassified by 5268SLD/K8  
Declassify on: DADR

99 AUG 6 1968

Removed By \_\_\_\_\_

Class. & Ext. By SP-1169K/RBG  
Reason - FCIM II, 1-2.4.2 3  
Date of Review 7-19-88File Number 100-2-244-2-1

217,800

4-23-82

Permanent Serial Charge Dut

~~CONFIDENTIAL~~



FEDERAL BUREAU OF INVESTIGATION  
FOI/PA  
DELETED PAGE INFORMATION SHEET  
FOI/PA# 1210156-0

Total Deleted Page(s) = 19  
Page 44 ~ Referral/Consult;  
Page 45 ~ Referral/Consult;  
Page 57 ~ Referral/Consult;  
Page 58 ~ Referral/Consult;  
Page 59 ~ Referral/Consult;  
Page 60 ~ Referral/Consult;  
Page 61 ~ Referral/Consult;  
Page 63 ~ b3; b7D; b7E;  
Page 64 ~ b3; b7D; b7E;  
Page 84 ~ b3; b6; b7C; b7E;  
Page 87 ~ Referral/Consult;  
Page 92 ~ b3; b7D; b7E;  
Page 101 ~ Referral/Consult;  
Page 102 ~ Referral/Consult;  
Page 103 ~ Referral/Consult;  
Page 104 ~ Referral/Consult;  
Page 105 ~ Referral/Consult;  
Page 106 ~ Referral/Consult;  
Page 124 ~ b3; b7D; b7E;

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X Deleted Page(s) X  
X No Duplication Fee X  
X For this Page X  
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~~SECRET~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1,6)  
DATE 12-22-2008

~~SECRET~~  
UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

b6  
b7C

In Reply, Please Refer to  
File No.

Pittsburgh, Pennsylvania  
January 20, 1969

Class. & Ext. By SP-1 GPK/RB6  
Reason - FCIM II 1-2.4.2  
Date of Review 5/13/82  
217,822

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

DR. ZALMAN MORDECAI SHAPIRO

~~431-525~~  
~~CLASSIFIED BY 8241 MURCER~~  
~~DECLASSIFY ON: 25X 1~~  
~~8-25-98~~

Investigation was instituted at the request of the Attorney General to establish the nature and extent of Zalman Mordecai Shapiro's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States. (U)

On October 10, 1968, a source, who has furnished reliable information in the past, advised that subject mentioned that he was in contact with [REDACTED] (phonetic) on that date. During the course of this contact, according to source, subject revealed that while in Washington, D. C., September 30, 1968, he spoke with Hermoni and Begun and that although there were problems, both were anxious to move ahead. Subject explained, according to source, that they must first determine if the materials are available for exportation; and in this connection, he sent a letter a few days ago to the Commission (Atomic Energy Commission) (AEC) requesting general information as to the availability of the materials for domestic as well as foreign applications. Source went on to say that he also inquired as to what the cost would be and if the metal was available as well as the oxide and things of that sort. Subject reportedly stated that he further indicated in the letter that the Commission urgently give consideration of the matter in view of the fact that it not only affects the possibility of customers, but also affects their desire to do development work on their own. (U)

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

~~SECRET~~

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

~~SECRET~~

CLASS. BY  
EXEMPTED FROM  
DECLASSIFICATION  
EXEMPTION CODE 25X(1,6)  
DATE 12-22-2008

Comp. # 204, 451

56851/12/196  
8-27-82  
SP-4 Jm/elan  
11/20/89 2,3  
7/12/81



~~SECRET~~

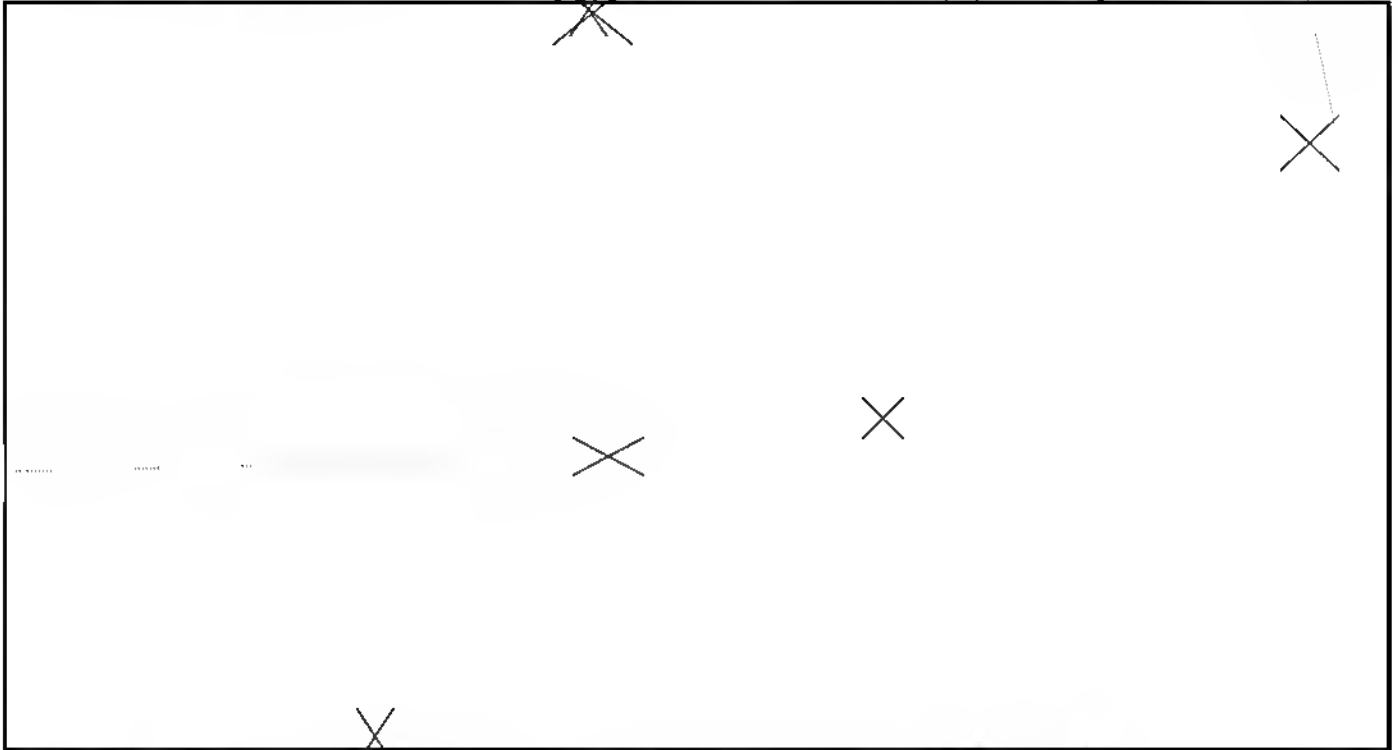
~~SECRET~~

(U)

b3

DR. ZALMAN MORDECAI SHAPIRO

(U)



During November, 1968, the Security Office, AEC, Washington, D. C., made available a copy of a letter dated October 8, 1968, from subject to Dr. Glenn T. Seaborg, Chairman, United States Atomic Energy Commission, Washington, D. C., which reads as follows:

"Dear Dr. Seaborg:

"NUMEC (Nuclear Materials and Equipment Corporation) has been receiving a number of requests from potential domestic and foreign customers to furnish them with microwatt and milliwatt thermoelectric generators powered by Pu-238. The number of these inquiries has increased since the official A.E.C. announcement indicating the availability of Pu-238 for commercial applications.

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~~SECRET~~



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~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

"However, despite this announcement, we have found it impossible to make any firm proposals for the supply of these units because we have not been able to get definitive answers to questions put to the A.E.C. regarding availability of the material in metallic form, purity, encapsulation cost, schedule and possible restrictions on use for domestic and foreign applications. More specifically, we must know:

- "1. Whether the material will be equally available for foreign applications as well as domestic applications. If this is not the case, what the specific restrictions are on foreign sales.
- "2. Whether there are any restrictions on the amount of Pu-238 in any particular device, assuming it can be licensed.
- "3. Whether any special criteria are to be employed in the design of the capsule and the device in which the capsule is located from the standpoint of licensing for domestic or foreign use.
- "4. What the minimum purity of the oxide will be.
- "5. Whether the material will be made available as metal as well as oxide since the oxide is unfit for many applications. Also, what will the minimum purity specifications and price on the metal be if it is supplied.
- "6. What maximum tolerance can be expected on the specified thermal and radiation output.

- 3 -  
~~SECRET~~

~~SECRET~~



~~SECRET~~

~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

- "7. Whether the A.E.C. will encapsulate the material and, if so, what the cost will be.
- "8. Whether the customer will be expected to supply the capsule parts or whether the A.E.C. will want to supply them.
- "9. What the basis will be for establishment of delivery schedules and whether these can be considered firm for quotation to potential customers.

"We urgently request that these matters be resolved as quickly as possible so that we can make definitive replies to our potential customers as well as determine whether we should continue our own private development of devices for commercial sale. It would be especially helpful if we could obtain immediate resolution of Items 1, 5, 7, and 9."

During December, 1968, the Security Office, AEC, Washington, D. C., made available a copy of a letter dated November 20, 1968, from Glenn T. Seaborg, Chairman, United States Atomic Energy Commission, Washington, D. C., to subject, which reads as follows:

"Dear Zal:

"This is in response to your letter of October 8, 1968, containing various questions pertaining to plutonium 238 for commercial applications. I am heartened by the increasing interest in the use of plutonium 238 as mentioned in your letter, and I want to be of assistance in any way I can in the encouragement of the beneficial use of this isotope and other Commission products. In the interest of clarity and to be sure I have responded to all your questions, I am answering the letter in the same format as you sent it to me.

~~SECRET~~



~~SECRET~~

~~SECRET~~

DR. ZALMAN MORDECAI SHAPIRO

"In answer to your first question, the 500 grams of plutonium 238 made available in April 1968 may be used for foreign applications as well as domestic applications. Overseas distribution within the free world is made on a non-discriminatory basis by (1) direct purchase through the U. S. Atomic Energy Commission by means of a formal request from the overseas customer to the Division of International Affairs, U.S. Atomic Energy Commission, Washington, D.C., or (2) by direct purchase from any private source, subject to applicable rules and regulations of the Atomic Energy Commission for the export of special nuclear materials.

"With regard to your second question, and in the context of your request, i.e., plutonium 238 for microwatt and milliwatt thermoelectric generators, there are no restrictions on the amount of plutonium 238 in a single device, assuming it can be licensed. Criticality is the only concern in terms of the amount of plutonium 238 that can be used in any particular device.

"The answer to your third question is that from the standpoint of licensing for domestic or foreign use, there are no special criteria to be employed in the design of the capsule and the device in which the capsule is located.

"Concerning your questions 4., part of 5., and 6., we have enclosed a very recent compilation of plutonium 238 data which has been accumulated by the Mound Laboratory over a number of years. While there is no material specifications, as such, for the commercially available plutonium oxide, these data should be helpful in answering your questions concerning the characteristics of the isotope in oxide, metal and other forms on the basis of average values. The heat source specification which was developed for the cardiac pacemaker and in which you are currently participating, may be considered typical of the metal which the AEC could supply.

~~SECRET~~

15 -  
~~SECRET~~



~~SECRET~~

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DR. ZALMAN MORDECAI SHAPIRO

"With regard to the remainder of question 5., and questions 7., 8., and 9., conversion from the oxide to other forms, such as the metal, and encapsulation services are available through AEC laboratories at additional cost but only if they are not available from private industry. Members of our staff have had discussions with the following companies which have indicated some capabilities in these areas: Atomics International, Donald W. Douglas Laboratory, General Nuclear Incorporated, Monsanto Research Corporation, and the Vallecitos Atomic Laboratory of the General Electric Company. As stated by Dr. Herman M. Roth, Director, Laboratory University Division, Oak Ridge Operations Office, in his letter dated October 29, 1968, to Mr. C. H. Whitmire of your company, if these or other commercial sources are not responsive to your needs, the work you wish to have done can be requested through the Isotopes Sales Department of the Oak Ridge National Laboratory. The criteria for the AEC performing this work are essentially those which Dr. Roth enumerated. Namely, your request should be accompanied by a list of the commercial firms you have contacted, their reasons and yours for not providing the services, and any other information which would be useful in evaluating your request. The description of the work you wish to have done should include the quantity of isotope fuel, the fuel form, thermal wattage per source, capsule design, encapsulating materials, and total number of heat sources to be fabricated. Only after this information has been received can the costs of your work, which would be based on full cost recovery, be established. At that time, delivery schedules could be established on a non-interfering basis and a determination made as to whether NUMEC or the AEC laboratory would supply capsule parts.

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"I hope this information has been helpful to you and that I have answered all your questions concerning the use of plutonium 238 in milliwatt and microwatt thermoelectric generators. I would be happy to have you discuss these matters further with Commission personnel if you so desire. In this regard I suggest that you call Milton Klein and John McBride for programmatic and licensing discussions, respectively, and they will be glad to arrange to meet with you."

On November 22, 1968, [ ] Lawrence Radiation Laboratory (LRL), Livermore, California, advised that about three years earlier he had partial responsibility for a project in the Special Materials Group of the Laboratory involving a research and development contract with subject's firm, Nuclear Materials and Equipment Corporation, for processing of nuclear material. [ ] of the Special Materials Group, handled details of the contract; and [ ] only met the subject briefly when subject was at the Laboratory on business. [ ] had no knowledge of any connections of the subject with the Israeli government. The subject and his firm had been a source of concern to [ ] while the contract was in existence. Under the contract, the Laboratory furnished Special Nuclear material to NUMEC for processing. Accountability for such material is strict because of its cost and toxicity poisonous. Past experiences had established average percentages of loss of material during processing of the type done by NUMEC and the loss by the firm seemed excessive to [ ] ~~(S)~~ (U)

The equipment used by NUMEC was government owned and furnished by the Laboratory. Upon completion of the contract, the firm tried to persuade the Laboratory to leave the equipment where it was on the grounds that it would be cheaper to leave it than to return it to Livermore and decontaminate it. In support of this argument, the firm furnished lists of equipment it claimed had been contaminated. Subsequent inspection by [ ] showed that some of these items had never been used at all. This led [ ] to suspect NUMEC of trying to get the equipment free and created further distrust of this firm. ~~(S)~~ (U)

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[ ] did not have details concerning the NUMEC contract since he did not work directly on it. He did not know how the contract was finally terminated because he received a new job assignment at the Laboratory prior to its completion. (S) X

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On November 29, 1968, Mrs. Mann, El Al Israel Airlines, John F. Kennedy (JFK) International Airport, New York City, advised that subject departed JFK aboard El Al Israel Flight #256 at 10:00 p.m. on November 28, 1968, for Tel Aviv, Israel, with scheduled arrival in Tel Aviv at 6:30 p.m., November 29, 1968. (S)(u)

Mrs. Mann advised that subject had return reservations from Tel Aviv, Israel, on December 12, 1968, aboard El Al Israel Flight #255, arriving New York City at 5:40 p.m., December 12, 1968. (S)(u) (U)

On December 15, 1968, first source advised that on that date subject briefly discussed his recent visit to Israel with Joseph Swartz, an attorney and a long time personal friend and business associate of subject. According to this source, subject informed Swartz that his trip to Israel was satisfactory but very hectic and that he obtained no rest during his visit. Subject said, according to source, that besides appointments with Israeli people, he attempted to conduct some NUMEC and ISORAD business at the same time. (S)(u) (U)

Subject indicated to Swartz, according to this source, that he is seriously considering the possibility of settling in Israel within the next four or five years. Subject said he has not definitely decided on the type of work he will pursue when he moves to Israel, but that during his recent visit he was offered a professorship, which subject indicated was not what he desired at this time. Subject advised, according to source, that the Israeli government is presently very interested in converting their technology in the nuclear field into commercial enterprises. Subject added, according to source, that other interesting business opportunities were discussed during his visit, but to take advantage, he must raise approximately \$1,000,000. (S)(u) (U)

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Source said Swartz informed subject that he plans to visit Israel on or about December 22, 1968. Subject remarked, according to source, that if Swartz needed telephone numbers of people in Israel, Swartz should obtain the numbers from his wife, Evelyn Shapiro. (S) (C) X

On December 18, 1968, Mrs. Jean Rodriguez, receptionist, Credit Bureau, Inc., 415 Smithfield Street, Pittsburgh, Pa., advised that her records show Joseph Swartz and wife, Reva L. Swartz, reside at 415 Braddock Road, Pittsburgh 21, Pa., and have resided at that address since approximately 1952. The records show Swartz has been a self-employed attorney since 1953, and that his office is located at 1231 Frick Building, Pittsburgh, Pa. Reva Swartz is shown to be employed as an Assistant to the Dean of Nurses School, University of Pittsburgh, Pittsburgh, Pa., and has been employed in this position since approximately 1958. He is shown to have been born January 13, 1911, and that both he and his wife maintain a satisfactory credit standing with that bureau. (S) (C) (U)

By letter dated November 3, 1966, AEC furnished a summary of the foreign activities of NUMEC, which states in part that "NUMEC is a sales agent for the Government of Israel through its Ministry of Defense, Division of Supplies, 830 Third Avenue, New York 22, New York. In this connection, NUMEC has an arrangement with the Israel Atomic Energy Commission to do biological work on insect control and assist in establishing facilities for the irradiation and preservation of citrus fruits. In this latter connection, NUMEC and the Government of Israel (represented by the Israel AEC) have formed a company in Israel called Isotopes and Radiation Enterprises Ltd. (ISORAD) which is an organization to do experimental and commercial work in irradiation processing of foodstuffs and other commodities." (S) (C) (U) X

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On December 15, 1968, first source advised that on that date, subject discussed his recent trip to Israel with Oscar Gray, an attorney from Washington, D. C., and Vice President of NUMEC. According to source, subject informed Gray that although his two-week visit to Israel was hectic, it was also very fruitful in that he gained a better understanding of the current political situation in Israel and in addition, was furnished information concerning several business opportunities of mutual interest to the Israeli government and himself. Subject, according to source, revealed that he was led to believe from discussions held with people in the Israeli government, that they were at that time very disorganized and discouraged; that they continue to remain skeptical about receiving Phantom F-4 fighter planes from the United States; that William Scranton's recent visit to the Middle East was at the direction of President-elect Richard M. Nixon who preconceived Scranton's approach and the fact that Scranton held no authority to make final decisions. Subject continued, according to source, that the Israeli government is now of the opinion that they cannot trust anyone. Israel, continued subject, is currently in the need of help and particularly large sums of money. Subject advised, according to source, that Israel is capable of actually building their own fighter planes as far as airframes and electronics are concerned, but that they lack the knowledge for designing the planes, which necessitates new technologies currently unavailable to them. ~~SECRET~~

Subject further informed Gray, according to source, that individuals in the Israeli government proposed several business ventures which they believed to be mutually profitable to both the Israeli government and himself. Subject said the proposition he is particularly interested in and will attempt to follow through with involved the building of a testing laboratory in Israel of the Pittsburgh Testing Laboratory and the State of Washington Batelle Laboratory type. Subject said, according to source, that the Israeli government is willing to guarantee \$2,500,000 for the construction of this laboratory if subject can raise \$500,000. Although subject did not believe it would be any easy task to accomplish, he indicated that he was going to attempt to raise the money. Subject continued, according to source, ~~SECRET~~

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by mentioning that the Israeli government wants to put in an aluminum extrusion plant; this facility could be started with a \$2,000,000 investment and the Israeli government would be willing to make concessions so that an investor could get one half of the extrusion plant for a million dollars. ~~(S)~~ ~~(C)~~

(U) Subject also discussed, according to source, the need for a complete aluminum industry in Israel. This would be a \$30,000,000 plant with the country (Israel) using at least 50 per cent of the plant's production with the remainder for export. The acquisition of raw materials for such a plant would present some problems, but subject believed, according to source, these problems could be overcome. ~~(S)~~ ~~(C)~~

(U) Source advised that subject revealed that Israel is anxious to convert their technologies in nuclear centers to commercial business, but that subject indicated he was not interested in devoting all of his time to this type of work. ~~(S)~~ ~~(C)~~

(U) Subject further revealed that Israel has a technique for drilling holes in diamonds, which is not accomplished by the use of a "laser," and that this technique has numerous commercial possibilities. Source advised that subject did not elaborate further on the above. ~~(S)~~ ~~(C)~~

(U) Source advised that subject reiterated that of all of the propositions discussed during his visit to Israel, the building of a laboratory sounded most appealing to him and added that it would take approximately eighteen months to organize the business. Subject said that both the defense and industrial branches of the Israeli government are anxious to have this laboratory in operation although before commencing he would secure contracts from all Israeli government services to insure their use of the laboratory. Subject, according to source, stressed the fact that Israel desperately needs money and anyone with a little money and desire could accomplish plenty in Israel at this time. ~~(S)~~ ~~(C)~~

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Subject went on to say, according to source, that concerning ISORAD they are currently attempting to get an irradiator built and have eight or nine bids outstanding. Subject indicated that a Camdian outfit has currently made the best bid to date. According to source, subject added that he brought back to the United States a couple of bids to review and to determine if the basis for their analysis is realistic. (U) (S) (C) (S) (C) (S) (C)

(U) [On December 15, 1968, a third source, who has furnished reliable information in the past, advised that on that date subject contacted [redacted] an employee at NUMEC, and that during the course of the conversation, [redacted] inquired about subject's recent visit to Israel. According to source, subject revealed that his two-week vacation in Israel afforded him an opportunity to catch up on some overdue rest. Subject explained to [redacted] that he had no close calls while in Israel with Arab guerrillas with whom the people of Israel must contend with on a daily basis. According to third source, subject went on to explain that [redacted]

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On December 17, 1968, Mrs. Jean Rodriguez, supra, advised that her records disclose that [redacted] have resided at [redacted] Pittsburgh, Pa., since 1959. The records show that he was born in [redacted] and has been employed since [redacted] as [redacted]. The records show that he has maintained a satisfactory credit standing with that bureau. (S) (C) (U)

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(U) [On December 21, 1968,] third source advised that on that date [redacted] requested Reva Swartz, wife of Joseph Swartz, previously mentioned, to carry a package on her forthcoming visit to Israel and to deliver same to a person by the name of [redacted] whom she explained was connected with the Israel atomic energy. [redacted] advised Reva, according to source, that she would write this individual's name and telephone number on the package. Third source advised that [redacted] described [redacted] to Reva as being a very nice and dedicated person. (U) ~~(S)~~ ~~(C)~~ ~~(X)~~ ~~(Z)~~ ~~(Y)~~ ~~(W)~~ ~~(V)~~ ~~(U)~~ ~~(T)~~ ~~(S)~~ ~~(R)~~ ~~(Q)~~ ~~(P)~~ ~~(O)~~ ~~(N)~~ ~~(M)~~ ~~(L)~~ ~~(K)~~ ~~(J)~~ ~~(I)~~ ~~(H)~~ ~~(G)~~ ~~(F)~~ ~~(E)~~ ~~(D)~~ ~~(C)~~ ~~(B)~~ ~~(A)~~

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(U) [On December 24, 1968,] first source advised that [subject and his family planned to spend the Christmas vacation in San Juan, Puerto Rico. Source advised that subject will depart Pittsburgh, Pa., via Eastern Airlines (EAL), Flight 303, at 9:05 a.m., December 25, 1968, for Miami, Florida, and will leave Miami via EAL Flight 590, arriving San Juan, 4:05 p.m., same date. Source revealed that subject will stay at the Condado Beach Hotel, San Juan, until December 31, 1968, when he and his family plan to return to Pittsburgh, Pa., via EAL Flight 950, departing San Juan 9:05 a.m., December 31, 1968.] (U) ~~(S)~~ ~~(C)~~ ~~(X)~~ ~~(Z)~~ ~~(Y)~~ ~~(W)~~ ~~(V)~~ ~~(U)~~ ~~(T)~~ ~~(S)~~ ~~(R)~~ ~~(Q)~~ ~~(P)~~ ~~(O)~~ ~~(N)~~ ~~(M)~~ ~~(L)~~ ~~(K)~~ ~~(J)~~ ~~(I)~~ ~~(H)~~ ~~(G)~~ ~~(F)~~ ~~(E)~~ ~~(D)~~ ~~(C)~~ ~~(B)~~ ~~(A)~~

(U) [On January 8, 1969,] third source advised that on [redacted] (U) ~~(S)~~ ~~(C)~~ ~~(X)~~ ~~(Z)~~ ~~(Y)~~ ~~(W)~~ ~~(V)~~ ~~(U)~~ ~~(T)~~ ~~(S)~~ ~~(R)~~ ~~(Q)~~ ~~(P)~~ ~~(O)~~ ~~(N)~~ ~~(M)~~ ~~(L)~~ ~~(K)~~ ~~(J)~~ ~~(I)~~ ~~(H)~~ ~~(G)~~ ~~(F)~~ ~~(E)~~ ~~(D)~~ ~~(C)~~ ~~(B)~~ ~~(A)~~

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Concerning this publication, source advised that subject recently informed employees at NUMEC that because of the growth of NUMEC there exists a need to establish an effective way for getting information to employees at NUMEC concerning their plans, problems, and activities, and that the publication of this newspaper is intended to serve that purpose.

(u) (S) (X) [It is recalled that on October 30, 1968, fourth source advised that]

[redacted] he learned that NUMEC had sustained unaccountable losses of nuclear material, and since, that this material might possibly have been diverted by subject to Israel. [Fourth source revealed that about the same period of time that NUMEC sustained the unaccountable losses of U-235, subject was involved in the development and manufacture of food irradiators for Israel. Source advised that at least one large irradiator was manufactured, and a number of smaller units called "Howitzers" were manufactured and sent to Israel. Source was of the opinion that had U-235 or any other nuclear material been available for shipment to Israel, it would have been a simple matter of placing large quantities of the material in these food irradiator units and shipping to Israel with no questions asked.]

(u) (S) (X) [On November 25, 1968, fourth source] made available a copy of attached four-page document entitled, "NUMEC" and bearing the subtitle, "Neutron-Pac: irradiator-Howitzer NAC-64," which describes the irradiator-Howitzer of the type manufactured and sent to Israel by subject, according to source.

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# NUMEC

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 09-29-2017 BY [REDACTED]

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Nuclear Materials and Equipment Corporation, internationally recognized as a leading manufacturer of nuclear materials, equipment and radioisotopes, offers another new commercial product—the NUMEC Neutron-Pac®. Through its inherent versatility, this unique neutron irradiator-howitzer enables a diversity of experiments in the areas of chemistry, physics, biology and metallurgy.

Functional capabilities of the Neutron-Pac® include:

- Demonstration and investigation of neutron phenomena
- Irradiation of biological specimens including small animals, plants and seeds
- Generation of appreciable quantities of radioisotopes
- Activation analysis of gaseous, liquid and solid materials

#### Description

The Neutron-Pac® is a cylindrical tank containing five fixed thermal radiation positions, an irradiation well with removable plugs of solid moderating material and a liquid irradiation tank. Neutron sources or material for bombardment may be inserted in irradiation positions in the plugs, or the plugs may be entirely removed to permit introduction of an animal cage or a twelve liter solution container for irradiation by sources within or below the liquid. From one to three fast or thermal neutron beam ports are also available as optional features.

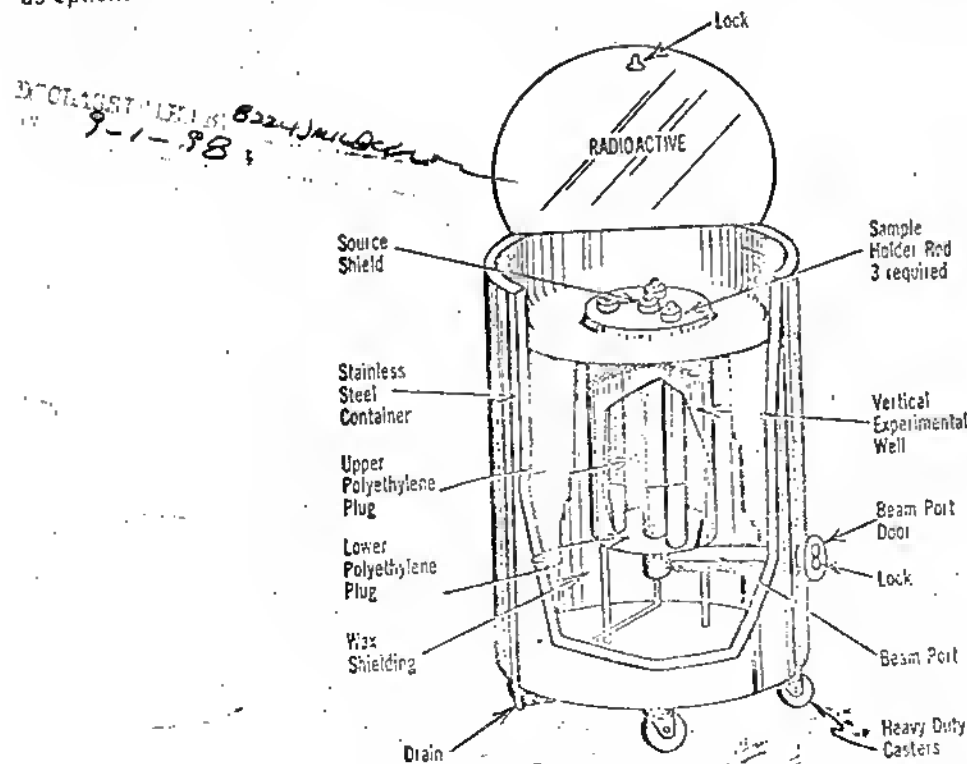
An activation potential (thermal neutron flux) of  $7.5$  to  $8.0 \times 10^4$  thermal neutrons per square centimeter per second is produced from three 2 curie NUMEC Pu-Be or Am-Be neutron sources. While neutron interaction can be demonstrated with only a single 1 or 2 curie source, up to 30 curies can be used safely.

The stainless steel irradiator tank is carefully filled with a special paraffin preparation which provides efficient neutron moderation and fast neutron shielding. Irradiation with fast neutrons is accomplished through the use of cadmium or boron liners which filter out the thermal neutrons.

#### Operational Features

The NUMEC Neutron-Pac® readily provides various types of irradiation facilities; the more important operational features include:

- A single position high-efficiency thermal neutron facility with reproducible geometry
- Simultaneous irradiation in three reproducible geometry thermal neutron positions
- Thermal or fast neutron small animal irradiation facility
- Production of up to millicurie quantities of radioisotopes
- Infinitely variable geometry for thermal neutrons in a liquid filled facility
- Fast and thermal neutron beams for irradiation and attenuation experiments





## Description

The design of the NUMEC Neutron-Pac® offers unique operating versatility. A brief description of the various operational arrangements is presented below.

### 1. Central Source Position with Annular Experiments

Arrangement 1 shows upper and lower polyethylene plugs in the vertical experimental well and a source or sources in the central irradiation position. Sample containers are in the three annular irradiation positions which are located 120° apart in the region of maximum thermal flux. This arrangement enables three different or similar experiments to be conducted simultaneously.

### 2. Annular Source Position with Central Experiment

Thermal neutron flux rises to a maximum and then decreases as a function of distance from a fast neutron source due to the combined effects of geometry and moderation. The Neutron-Pac® takes advantage of this phenomenon achieving higher flux when three sources are placed in the annular positions and a single experiment is performed in the central irradiation position as shown in Arrangement 2.

### 3. Beam Experiments in Vertical Position

Any of the three vertical irradiation positions may be used as a vertical beam port for absorptimetry experiments and analysis or for neutron radiography as shown in Arrangement 3. A fast neutron beam can be obtained by lining any irradiation position with a cadmium sleeve.

### 4. Small Animal Irradiators

For radiation exposure of small animals, a cage may be placed on the lower polyethylene plug.

The upper plug provides shielding while the source handling rod holes provide ventilation, as shown in Arrangement 4.

### 5. Experiment Tank

#### a. Liquid with Dry Source

By replacing the upper polyethylene plug with the liquid irradiation tank as shown in Arrangement 5, the entire 8" diameter by 14" high cylindrical volume is available for either fast or slow neutron experimentation depending on whether an unlined or cadmium-lined tank is used. For these experiments, the sources are placed at the top of the lower polyethylene plug. The irradiation in this tank may be performed in air or under any liquid, in a system with infinite incremental geometric variables, or the tank may be used to produce radioisotopes in large volumes of solutions.

#### b. Liquid with Wet Sources

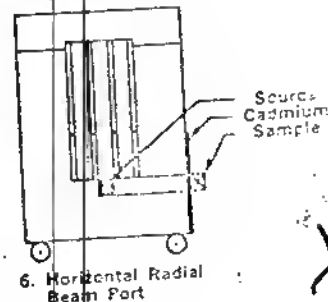
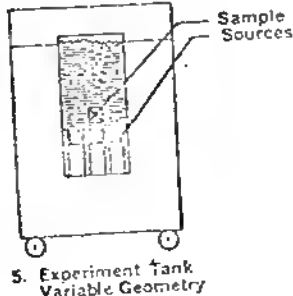
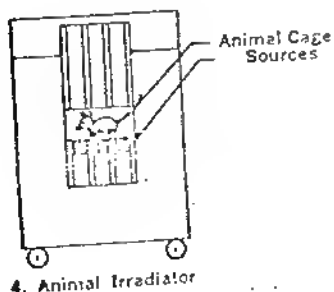
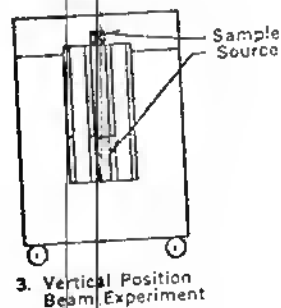
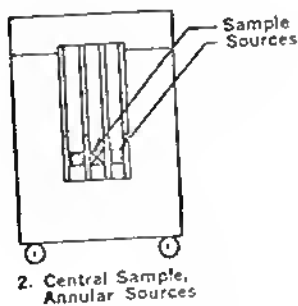
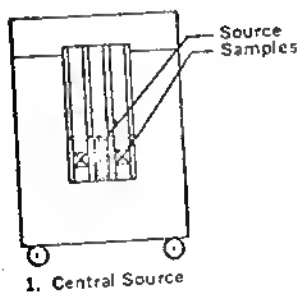
Simple fixtures can be used to suspend multiple NUMEC neutron sources in the liquid experiment tank, thereby allowing maximum interaction of the emitted neutrons with the tank contents. The liquid experiment tank may also be filled with water into which experiment capsules are immersed, thereby providing a completely flexible facility with unlimited sources and samples arrangement possibilities.

### 6. Horizontal Radial Beam Port

Where horizontal rather than vertical beam irradiation is desirable, up to three optional horizontal radial beam ports are available to provide either slow or fast neutron beams which can be used for absorptimetry or for radiographic purposes as shown in Arrangement 6.

If a fast neutron beam is desired, a cadmium radial beam shield is inserted in the beam port to absorb most of the thermal neutrons in the beam.

## Typical Operating and Experimental Tank Arrangements





## Specifications

**Container:** The basic structure of the Neutron-Pac® is a 22" diameter by 35" high stainless steel container with a coved experiment tray, a vertical experimental well, a hinged cover with lock and key and optional beam ports with lock and key. The container is mounted on ball bearing casters for easy mobility. Design considerations enable sources and port shields to be secured so that the Neutron-Pac® can be safely left unattended during irradiation periods.

**Shielding:** A special microcrystalline wax, having a melting point of 157°F and a flash point of 550°F, is carefully cast between the vertical experiment well and the outer container to provide an integral uniform shield for the operator. With the source in the central position, a surface dose rate of less than 1 mrem. per hour per curie of Pu-Be and Am-Be source occurs.

**Vertical Irradiation Well:** An 8" diameter by 21" high vertical irradiation well holds the 5" lower and 16" upper polyethylene irradiation plugs which provide four fixed irradiation positions of 1 3/8" diameter.

Placing a 12.5 liter stainless steel irradiation tank in the vertical irradiation well provides containment for solutions to be irradiated or allows infinitely variable geometry. An optional cadmium-lined liquid irradiation tank is available when fast neutron interaction is desired.

When the animal cage is placed on the lower polyethylene irradiation plug, the upper plug provides shielding for the operator and ventilation for animals. A stainless steel drain and valve are provided in the bottom of the well to facilitate cleaning or draining.

**Sample Shield and Removal Tool:** Each of three 17 1/2" long sample shield and removal tools locks onto one of the three sample containers by means of a "J" slot. These containers are then usable to position foils, liquid irradiation bottles or materials for irradiation in any of the four fixed vertical irradiation positions. These tools shield the source when the annular array is used.

**Source Lifting Tool:** A 30" source lifting tool with a permanent magnet is provided for convenient and safe moving of sources and magnetic polyethylene plugs. The dose 30" from an Am-Be or Pu-Be neutron source is 3.5 mr/hr/ curie; thus an exposure of 30 curie-hours per week at 30" may be tolerated before reaching the U. S. A.E.C. maximum permissible dose of 100 mr/week.

**Foils:** A set of activation foils is provided which consists of 10 indium foils, 20 cadmium foils, one 10k gold foil and one 18k gold foil. Calibrated foils are also available.

**Beam Port:** Up to four aluminum-clad beam ports can be provided. Each beam port has a 2" diameter by 11" long semi-cylindrical sample holder (with lock and key) which can be used with moderator spacers and foils to obtain flux profiles.

**Source Magnetic Caps:** Three source magnetic caps of 430 stainless steel are attached to the standard NUMEC Pu-Be neutron source or the Type A NUMEC Am-Be neutron source.

**Spacers:** Five magnetic and twelve 3/8" diameter plexiglass spacers are included. Others are available as an extra.

### Experimental Applications

The operational features of the Neutron-Pac® enable numerous experiments to be performed; typical experiments are described in step-by-step procedural fashion in the Neutron-Pac® Experiment Manual. A partial listing of experiment categories follows:

#### General

- Radiation Survey
- Absolute Foil Counting

#### Physics

- Half-life and Saturated Activity
- Total Cross-Section 1/v Absorbers
- Most Probable Neutron Energy
- Temperature Coefficient of Nuclear Cross-section
- Fission Product Activity
- Neutron Reactor Control
  - 1) Poison
  - 2) Reflection
- Neutron Radiography

#### Chemistry

- Activation Analysis, Quantitative and Qualitative
- Isotopic Analysis by Absorptimetry
- Production of Short Lived Isotopes
  - (<sup>112</sup>In, <sup>113</sup>Mn, <sup>114</sup>Pb, <sup>115</sup>Ag, <sup>116</sup>V, <sup>117</sup>In, <sup>118</sup>Re, several rare earths, and others)
- Isotope Dilution Technique
- Physical Chemistry Studies (solubilities, electrode reactions, etc.)
- Slurry Settling
- Diffusion
- Szilard-Chalmers Reaction

#### Metallurgy

- Diffusion
- Activation of Gold and Platinum-Iridium Alloys
- Radiography
- Trace Analysis

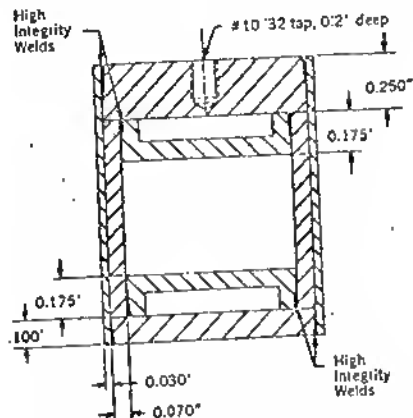
#### Biology

- Translocation of <sup>113</sup>In and <sup>114</sup>Mn in Animals and Plants

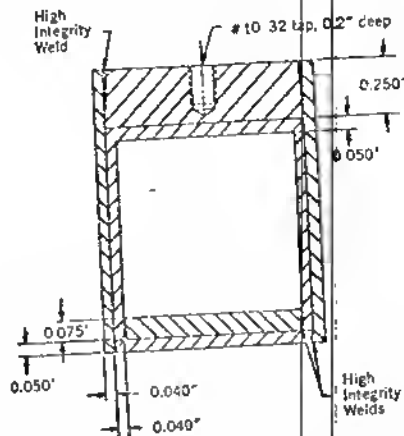


Neutron sources of Pu-Be and Am-Be are available from NUMEC for neutron irradiator-howitzers and other applications. These sources are attractive from an experimental viewpoint since their

high specific activity combined with long half-life permits a high constant neutron output. Specification data for NUMEC Pu-Be and Am-Be neutron sources is presented below.



Standard NUMEC Americium Neutron Source Capsule  
Inner Capsule: 304L Stainless Steel  
Outer Capsule: 304L Stainless Steel



Standard NUMEC Plutonium Neutron Source Capsule  
Inner Capsule: Tantalum  
Outer Capsule: 304L Stainless Steel

## Standard NUMEC Pu239-Be Neutron Sources

Catalog Designation Sources with 0.250" cap and 10/32 tapped hole:	Plutonium Content Curies Grams		Diameter Cylinder (in.) (t)	Length Cylinder (in.) (t)	Approximate Strength (RPS)	Price (2) (U.S. Dollars)
NUMEC-AA	1	16	1.310	1.105	$1.8 \times 10^4$	\$ 665
NUMEC-C	2	32	1.310	1.510	$3.6 \times 10^4$	765
NUMEC-D	3	48	1.310	1.915	$5.4 \times 10^4$	865
NUMEC-F	4	64	1.310	2.320	$7.2 \times 10^4$	965
NUMEC-H	5	80	1.310	2.720	$9.0 \times 10^4$	1,065

## Standard NUMEC Am-Be Neutron Sources

Catalog Designation Sources with 0.250" cap and 10/32 tapped hole:	Americium Content Curies Grams		Diameter Cylinder (in.) (t)	Length Cylinder (in.) (t)	Approximate Strength (RPS)	Price (3) (U.S. Dollars)
NUMEC-AM-31-3A	1	0.309	1.310	0.575	$2.1 \times 10^4$	\$1,150
NUMEC-AM-62-3A	2	0.618	1.310	0.720	$4.2 \times 10^4$	1,710
NUMEC-AM-93-3A	3	0.926	1.310	0.870	$6.3 \times 10^4$	2,225
NUMEC-AM-123-3A	4	1.23	1.310	1.020	$8.4 \times 10^4$	2,735
NUMEC-AM-154-3A	5	1.54	1.310	1.170	$1.0 \times 10^5$	3,240
NUMEC-AM-185-3A	6	1.85	1.310	1.320	$1.3 \times 10^5$	3,740

- All dimensions are  $\pm 0.002$  inches.
  - Pu-Be prices include source fabrication, all USAEC use and loss charges during fabrication, calibration of source against standard NUMEC source, and "all risk" marine insurance during transit within continental United States; a \$50 handling charge is added to each non-domestic order. Prices do not include the contained plutonium which must be leased from the USAEC by domestic customers and purchased from the USAEC by non-domestic customers.
  - Am-Be prices include source fabrication, contained americium, packing and shipping per I.C.C. and other applicable regulations and "all risk" marine insurance from NUMEC to any point within the continental United States. A \$50 handling charge is added to each non-domestic order.
- Shipping containers can be purchased for customer storage use or returned to NUMEC for deposit refund.  
Prices are subject to change without notice.



UNITED STATES GOVERNMENT

# Memorandum

8-25-98

431525

DIRECTOR, FBI (117-2564)

SAC, PITTSBURGH

DR. ZALMAN MORDECAI SHAPIRO  
(U) IS - ISRAEL; (S)  
ATOMIC ENERGY ACT

Class. & Ext. By SP-1 GSK/RSB  
Reason: FCIM, II, 1-2.4.2  
Date of Review 1-28-89  
217,822

DATE: 1/20/69 5/13/92

Classified by 5668540/KR  
Declassify on: OADR 1-4  
EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1)  
DATE 11-19-2008

ReBullets to Pittsburgh dated 11/13/68 and 12/10/68;  
New York airtel to Bureau dated 11/29/68; San Francisco letter  
to Bureau dated 11/26/68; and Pittsburgh letters to Bureau  
dated 10/22/68 and 11/29/68.

Enclosed for the Bureau are five copies and the  
other listed offices two copies of LHM dated and captioned  
as above.

Enclosed LHM is being classified "Secret" since an  
unauthorized disclosure of a FBI investigation of the subject  
could be detrimental to the national security interests of  
this Government. (S)(u)

It should be noted that

The information, document, and  
copy of NUMEC publication, referred to in enclosed LHM, were  
received by SA E. CLEON GLAZE through the mail from  
on 11/25/68.

Concerning the NUMEC publication mentioned above,  
the issue furnished by contained no information per-  
taining to this investigation. Future copies of this  
publication are being sought through a reliable  
source who has previously furnished information in this matter.

On 1/4/69, reported that on that date  
a Mr. (FNU) JUDA attempted to contact subject. JUDA, when  
informed subject was not at home, advised that he would  
attempt to contact him at a later date. To date, this  
individual is not known to have contacted subject at his  
residence. However, in all probability, JUDA has been in  
contact with subject at NUMEC, Adollo, Pa. (S)(u)

3 - Bureau (Enc. 5) (RM)

2 - New York (Enc. 2) (RM)

2 - Washington Field

2 - Pittsburgh

DFW/emq  
(9)

5010-108-02

CONFIDENTIAL

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

SECRET

b3  
b7E

b7D

b3  
b7E

b3  
b7E

b6  
b7C



~~CONFIDENTIAL~~

~~SECRET~~

~~13416~~

~~137312~~

b3  
b7E

[REDACTED]

(U) It is noted that Dr. WALTER JUDA, President of Prototech Division of Bolt, Branck and Newman, Inc., Cambridge, Mass., reportedly attended the meeting held at subject's residences on 11/3/68. (S) (C)

(U) With reference to the business propositions discussed with subject during his recent visit to Israel, referred to in enclosed LHM, it is recalled that subject has previously discussed business ventures of this type. (S) (C)

(U) On 10/26/68, subject expressed interest in a chemical facility which is being built in Israel by the Allied Chemical Company. (S) (C)

(U) It appears that if subject can raise a million dollars or so within the next few years, he would not hesitate to move to Israel and establish some business in that country. (S) (C)

The information attributed to [REDACTED] was furnished to SA KEITH G. TEETER. b7D

Credit records at Pittsburgh, Pa., were checked by IC GEORGE C. DIPPOLD.

Source

Location

(U) [REDACTED] (C)

(U) [REDACTED]

[REDACTED]

Fourth source is [REDACTED] [REDACTED]

[REDACTED]

(By request)

X

b3  
b7D  
b7E

LEAD

PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

Will continue to report activities of subject.

~~SECRET~~

~~SECRET~~

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

Date of Mail

1-31-64

~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE.~~

#03P0758  
DECLASSIFIED BY RDC 60290 DCE/716  
ON 10/6/03

Has been removed and placed in the Special File Room of Records Branch.

~~431525  
CLASSIFIED BY 82243NLRCELA  
DECLASSIFY ON 25X 1  
8-25-98~~

See File 66-2554-7530 for authority.

~~4-27-85  
Classified by 56615-01/19  
Declassify on OADR~~

Subject

JUNE MAIL

for Zalman Mordecai ShapiroRemoved By 98 FEB 3 1969

File Number

117-2564-177

Class. &amp; Ext. By

~~SP-1 BOK/RB6~~

Reason - FCIM II, 1-4.2

Date of Review

~~1-31-89~~

Permanent Serial Charge Out

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

Date of Mail

1-24-69

FR3 R0758

10/6/03

AUC 60290 BEE/m 21/716

Has been removed and placed in the Special File Room of Records Branch.

~~(S)~~(U)~~CONFIDENTIAL~~~~431 525  
CLASSIFIED BY 822-JMK/BCCL  
DECLASSIFY ON: 1  
8-25-98~~

See File 66-2554-7530 for authority.

Classified by  
Declassify on~~4-27-89  
366894/10  
OADR~~

Subject

JUNE MAIL

*Mr. Zubin Mordani Shapiro*

Removed By

98 FEB 10 1969

File Number

117-2564-178

Class. &amp; Ext.

Reason - FCIM II

Date of Review

217,802

~~SP/ESK/RR6~~~~1-2.4.2~~~~24-89~~

5/13/82

Permanent Serial Charge Out

~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~



UNITED STATES GOVERNMENT

# Memorandum

TO : DIRECTOR, FBI (117-2564)

DATE: 1/31/69

FROM : SAC, CHICAGO (117-174) (P)

SUBJECT: DA. ZALMAN MORDECAI SHAPIRO  
IS-ISRAEL (U)  
AEA

OO: Pittsburgh

Re Chicago letter to Director and Pittsburgh,  
dated 11/19/68.

The Chicago Telephone Directories and other pertinent reference books were reviewed for information concerning the identity of the White Book House with negative results. A survey of the area located at 3815 West Armitage Avenue, in Chicago, Illinois, during December, 1968 ascertained that the White Book House was a publishing company that had departed that particular neighborhood about ten years ago. The building which housed that company is now occupied by an electronics corporation. (X) 41

On January 16, 1969, Special Agent STEPHEN E. DELANTY checked the residence at 3103 West Rosemont in Chicago, Illinois and there was no listing for one SAMUEL ROTTMAN. The Northtown Branch of the United States Post Office was checked and it was determined from a Mr. ELLIS the carriers on that route covering 3103 West Rosemont could not remember a HOTTMAN family for the past five years. (X) 41

Chicago is of the opinion a previous check concerning  

  may have been incorrect. Chicago will recheck   to determine if this is true and will report the results when they become available. (X) 41

- 2 - Bureau (HM)
  - 2 - Pittsburgh (RM)
  - 1 - Chicago
- SED:svm  
(5)

REC 43



61 FEB 10 1969

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan





In Reply, Please Refer to  
File No.

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

San Francisco, California  
January 24, 1969

~~CONFIDENTIAL~~

DR. ZALMAN MOROECAL SHAPIRO

On November 22, 1968, [redacted] Lawrence Radiation Laboratory (LRL), Livermore, California, advised that about three years earlier, he had partial responsibility for a project in the Special Materials Group (SMG) involving a research and development contract with Shapiro's firm, Nuclear Materials and Equipment Corporation (NUMEC), for the processing of nuclear material. Shapiro and his firm had been a source of concern to [redacted] because LRL furnished NUMEC special nuclear material for processing and the firm had been unable to satisfactorily account for quantities of such material. [redacted] noted that accountability is strict because of the cost, and toxicity of this substance. Past experience with processes of the type conducted by NUMEC had established average percentages of loss to be expected, but the firm rather consistently reported losses in excess of these criteria.

[redacted] said he had only met Shapiro briefly on the occasion of one of his visits to LRL. Matters discussed were related entirely to business and [redacted] had never received any indication of Shapiro's attitude toward the government of Israel and did not know if Shapiro had any connection with that government.

~~CONFIDENTIAL~~

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

-----  
This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

DECLASSIFIED BY SP-1 GSK/RBG  
ON 5/17/82



~~CONFIDENTIAL~~

DR. ZALMAN MOROECAL SHAPIRO

On January 17, 1969, [ ] LRL, advised that for a period of about two and one-half years beginning four years earlier, he had been directly involved with the contract between LRL and NUMEC under which the firm processed nuclear material. During this time, he had occasion to meet with Shapiro at LRL on two or three occasions and met him at his company on a number of occasions.

b7D

Certain aspects of the performance of NUMEC under the contract had been unsatisfactory, particularly in the area of health standards expected of the firm in handling toxic materials, regarding routine handling and safeguarding of classified information furnished the company and regarding unexplained loss of nuclear material.

Under the contract, NUMEC was furnished highly sensitive information in the secret classification concerning operations at LRL. [ ] had no reason to think that such information had ever been compromised in any manner through the actions of anyone in the firm. He did note, however, that security procedures in handling such information had been unsatisfactory and felt this would enhance the possibility of inadvertent compromise.

[ ] had no information indicating Shapiro's position with respect to the government of Israel. He did state however that Shapiro was reportedly a devout Hebrew, but did not know the extent to which Shapiro's religious affiliations might have influenced his relationship with the Israel government or any of its agencies including possible intelligence activities on behalf of that country.

- 2\* -

~~CONFIDENTIAL~~



UNITED STATES GOVERNMENT

**CONFIDENTIAL**

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-28-2017 BY: [REDACTED]

# Memorandum

TO : DIRECTOR, FBI (117-2564)

DATE: 1/24/69  
82061 MKSCEZ m

FROM : *B. R. 7*  
SAN FRANCISCO (117-257)(RUC) 8-25-98

SUBJECT: OR. ZALMAN MOROECAL SHAPIRO

IS - ISRAEL; ~~(S)~~ (U)  
ATOMIC ENERGY ACT

Classified by *50655/PAJ*  
Declassify on: OADR

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE

00: Pittsburgh

Re Mylet 11/26/68 and Bulet 12/11/68 requesting  
interview of [REDACTED] Lawrence Radiation Laboratory,  
Livermore, California.

Enclosed for the Bureau and Pittsburgh respectively  
are five and two copies of an LHM of above date and caption  
setting forth results of interviews with [REDACTED] and [REDACTED]  
[REDACTED] Two copies of the enclosure are designated for  
information of New York in view of possible further inquiry  
by that office based on information furnished by [REDACTED]

The enclosure has been classified ~~confidential~~  
since information therein discloses the Bureau's interest  
in the Subject as a suspect in Israel intelligence operations  
and unauthorized disclosure of such information could be  
detrimental to the defense interests of the nation. (S) (U)

On 12/17/68, THOMAS CLEAVER, Security Office,  
Lawrence Radiation Laboratory, Livermore, California,  
advised SA KEITH G. TEETER that [REDACTED] was out of the  
country on vacation and was expected to return to the  
laboratory on 1/5/69.

In the interview of [REDACTED] he advised that  
although he had no direct knowledge of possible connections  
of the Subject with Israel, he had received inferences  
during conferences with personnel of the New York Operations  
Office of AEC that rumors existed or had been reported  
indicating some kind of suspected connection between  
the Subject and Israel. The sources of this information  
[REDACTED]

- 2 - Bureau (Encls. 5)(RM)  
2 - Pittsburgh [REDACTED] (Encls. 2)(RM)  
2 - New York [REDACTED] (Encls. 2)(Info)(RM)  
1 - San Francisco  
KGT/rb  
(7)

**CONFIDENTIAL**

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~

SF 117-257  
KGT/rb

In view of the positions held by [redacted] and [redacted]  
it is considered probable that they [redacted]

b7D

[redacted] Since it is unknown at San Francisco if they have been interviewed in this case, or if such interviews are necessary in the light of past results of investigation in this case, the determination of the desirability of such interviews is left to the discretion of the office of origin.

~~CONFIDENTIAL~~  
~~CONFIDENTIAL~~  
- 2 -



~~CONFIDENTIAL~~

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-28-2017 BY:  

b6  
b7C

UNITED STATES GOVERNMENT

# Memorandum

TO : DIRECTOR, FBI (117-2554)

FROM : SAC, BALTIMORE  

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
ATOMIC ENERGY ACT  
(OO: PG)

P

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Classified by 5668 SD/AD  
Declassify on: OADR

b3  
b7E

Class. & Ext. By SP-1 GSK/RB3  
Reason - FCIM II, 1-2.4.2  
Date of Review 1-31-89

5/17/82

Re Pittsburgh airtel, 9/26/68; Baltimore  
letter to Bureau, 10/22/68.

b7D

- (2) - Bureau (REGISTERED MAIL)
- 2 - Pittsburgh   (REGISTERED MAIL)
- 1 - WFO (Info.)   (REGISTERED MAIL)
- 1 - Baltimore

TM:jtk

(6)

REC 43

17 FEB 5 1969

b3  
b7E

~~CONFIDENTIAL~~

FEB 17 1969

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan. INT. SEC.



~~SECRET~~  
~~CONFIDENTIAL~~

b3  
b7E

[REDACTED]

The current Polk's City Directory for Bethesda, Maryland, lists ROBERT LOWENSTEIN (ROLLIE H.), 6601 Tulip Hill Terrace, Assistant Director of Regulations, Atomic Energy Commission (AEC).

On 11/1/68, CLEMENT PALLAZZOLO, Security Officer, AEC, Germantown, Maryland, advised LOWENSTEIN terminated employment at AEC in August, 1965 and is reportedly self employed as a lawyer in WDC. (It is noted that a review of the current C & P Telephone Company Directory for the Metropolitan-WDC area at this time reflected a listing for ROBERT LOWENSTEIN, Lawyer, 1100 Connecticut Avenue, N.W., WDC, telephone number 296 - 7585).

PALLAZZOLO advised that a review of LOWENSTEIN's AEC personnel file reflects that he was appointed an attorney for AEC in 1952. A re-investigation in 1957 was for a similar position. A 1962 re-investigation reflected he was appointed as a Director in the Division of Licensing and Regulation and in 1964, he was appointed Assistant Director for Regulation. He terminated his employment at AEC in August, 1965 but maintained his AEC Q Clearance as a consultant to AEC. He is still on the rolls as a consultant but PALLAZZOLO does not believe he is active at this time since the last note in his file stating AEC was using him as a consultant was for the period September, 1965 - June, 1966.

PALLAZZOLO described the AEC Q Access Clearance as having access to any classification of information on a need to know basis. In the course of LOWENSTEIN's employment from 1952 to 1965, and as a consultant, he would undoubtedly have had access to classified information but to determine the degree of sensitivity, records of the AEC Security Library would have to be reviewed and his supervisors would have to be interviewed for their recollections as to what work he was involved in.

LOWENSTEIN's personnel file reflected the following background information:

Race:	White
Sex:	Male
DOB:	6/12/18
POB:	New York, New York
Height:	5' 6"
Weight:	135
Eyes:	Brown
Hair:	Brown

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~~SECRET~~  
~~CONFIDENTIAL~~



~~SECRET~~

~~CONFIDENTIAL~~

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[REDACTED]

Social Security #: 064-16-5835  
Military Service: U.S. Army, 1942-1945,  
ASN 32409720;  
U.S. Army, 1945-1946,  
ASN 01950394

LOWENSTEIN signed an AEC Loyalty Oath stating he is not a member of the Communist Party or any other subversive organization advocating the overthrow of the U.S. Government.

A 1952 AEC memorandum in LOWENSTEIN's file reflects that he advised that he is a member of the American Veterans Committee for Democratic Action. An addendum to this note stated that this organization is alleged to be communist infiltrated.

It is noted that LOWENSTEIN's file reflects numerous minor security violations, i.e. leaving safe open, leaving classified papers on his desk, etc., which would indicate a laxness concerning the aspect of security. His file also includes extensive chronological background which is not being set out at this time for the sake of brevity.

On 11/5/68, SE C. H. PETERSON, WFO, caused the records of the Credit Bureau, Inc., WDC to be reviewed re LOWENSTEIN and the results of this check are attached as enclosure to Pittsburgh.

Baltimore indices reflect a listing for ROBERT SOLOMON LOWENSTEIN, aka, Robert Lowenstein, Baltimore file 116-25511; BUfile 116-317965, captioned "ROBERT LOWENSTEIN, aka, AEA-E." Review of this file reflects no derogatory information concerning LOWENSTEIN.

On 11/4/68, PALLAZZOLO advised that he determined that LOWENSTEIN is a law partner of JACK RUBIN NEWMAN at 1100 Connecticut Avenue, N.W., WDC. NEWMAN, who resides at [REDACTED] telephone number [REDACTED] was appointed an AEC attorney trainee in June, 1959. After leaving AEC and going into private law practice he became a staff consultant for the Congressional Joint Committee on Atomic Energy, a position he no longer holds. In 1964, he was appointed as Secretary and General Counsel

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~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

b3  
b7E

[REDACTED]

of the Nuclear Materials and Equipment Corp. (NUMEC), Apollo, Pa., a position PALLAZZOLO believes he still holds. NEWMAN is an authority on international law on atomic energy and he has active AEC Q or L (Confidential) Clearances at the following AEC facilities for contracts with the following contractors:

<u>AEC Facility</u>	<u>Clearance</u>	<u>Contractor</u>
New York	Q	NUMEC
Schenectady Naval Reactors Office	L	NUMEC
Pittsburgh Naval Reactors Office	L	NUMEC
Oakridge	Q	NUMEC
Washington, D.C.	Q	Space Nuclear Propulsion Office, AEC Hdqtrs, WDC
Livermore, Cal.	Q	NUMEC

Again this does not necessarily mean that he is currently involved in the above contracts.

PALLAZZOLO advised that NEWMAN has a reputation of being very security minded and loyal.

b7D

[REDACTED]

Both are unknown to established sources in Baltimore area.

6

~~SECRET~~

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

~~SECRET~~

[REDACTED]

b3  
b7E

[REDACTED] information is  
not to be made a matter of public record without the  
issuance of a subpoena duces tecum directed to [REDACTED]  
[REDACTED]

b7D

~~SECRET~~  
~~CONFIDENTIAL~~



~~SECRET~~

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b7C

SAC, Pittsburgh [REDACTED]

~~CONFIDENTIAL~~

2/6/69

b3  
b7E

Director, FBI (117-2564) - 103

DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S)  
AEA

1 - Mr. Vacks

The following is being submitted for your information and no investigative action is being requested: (S)(U)

On 1/24/69 Atomic Energy Commission advised that Avner Tal, a scientific consultant to the Government of Israel Investments and Export Authority would be visiting NUMEC on 2/18/69. He plans to see the subject as well as D. L. Purdy at the Energy Conversion Laboratory of NUMEC for the purpose of discussing radiation processing of thermo-electric devices. Tal has no Atomic Energy Commission clearance and the visit according to Atomic Energy Commission must be on a nonclassified basis. (S)(U)

JFW:wmk  
(4)

Classified by 4-27-85  
Declassify on OADR

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

MAILED 4  
FEB 8 - 1969  
COMM-FBI

Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM 1-2.4.2  
Date of Review 2-6-89

5/19/82

~~SECRET~~

~~CONFIDENTIAL~~

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Wick \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Rm. \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

51 FEB 17 1969

MAIL ROOM ☐ TELETYPE UNIT ☐



~~CONFIDENTIAL~~

EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1,6)  
DATE 09-30-2008

UNITED STATES GOVERNMENT

# Memorandum

~~SECRET~~

~~CONFIDENTIAL~~

Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
Gale \_\_\_\_\_  
Rosen \_\_\_\_\_  
Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

TO : Mr. D. J. Brennan, Jr.

DATE: 2/3/69

FROM : J. M. Fitzgerald

SUBJECT: ~~AVNER TAL~~  
~~(S)~~ ~~(U)~~ INTERNAL SECURITY - ISRAELI

(U) On 1/24/69 Mr. C.A. Palazzolo, Security Division, Atomic Energy Commission (AEC), told Liaison that AEC, New York, had called him that day to advise that subject, an Israeli citizen, would be visiting Nuclear Materials and Equipment Corporation (NUMEC) on 2/18/69, Apollo, Pennsylvania.

According to Palazzolo, Tal is a scientific consultant to the Government of Israel Investments and Export Authority. He was born [redacted] at Antwerp, Belgium. Our files are negative on his name and Palazzolo has been so advised.

(U) Palazzolo said Tal is reportedly planning to see one D.L. Purdy and also Zalman Shapiro at the Energy Conversion Laboratory of NUMEC. The purpose is said to be to discuss radiation processing of thermo-electric devices. The visit must be on a nonclassified basis since Tal has no AEC clearance.

## ACTION:

This memorandum is being directed to the Nationalities Intelligence Section.

- 1 - R. D. Cotter
- 1 - J. M. Wacks
- 1 - Liaison
- 1 - J. M. Fitzgerald

JMF:kw  
(5)

4-27/85  
Classified by 5665 SLD/KJ  
Declassify on OADR

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. & Ext. By SP-16 DK/RBG  
Reason - FCIM II, 1-2.4.2  
Date of Review 3-8-83  
217,822  
5/19/82

REC-34

22 FEB 7 1969

~~CONFIDENTIAL~~

~~SECRET~~

~~CONFIDENTIAL~~

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-27-2018 BY: [redacted]

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b7C

b3  
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~~CONFIDENTIAL~~

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-19-2018 BY [ ]

UNITED STATES GOVERNMENT

# Memorandum

~~SECRET~~

TO

FROM: *RWB*

DIRECTOR, FBI (117-2564)

DATE: 2/7/69

b6  
b7C

SAC, NEWARK [ ] (RUC)

b3  
b7E

SUBJECT:

DR. ZALMAN MORDECAI SHAPIRO  
(IS-ISRAELI) AREA (S) (U)  
(OO: PITTSBURGH)

4-27-85

Re Newark letter to Bureau, 12/25/68.

Classified By: 568510/10  
DATE: 12/25/88

The following investigation was conducted by  
SA JOHN JOSEPH REID, JR.:

It has been established through general inquiry that Dr. ALEX R. and his wife ZIPPORAH SCHEFRIN have resided at 235 Lexington Avenue, Passaic, N.J., since at least 1954. Dr. ALEX R. SCHEFRIN has been practicing medicine from his residence at 235 Lexington Avenue, for about the past 14 years.

Lt. GEORGE MISKE, Passaic, NJPD, advised that Dr. SCHEFRIN enjoys a favorable reputation in the community.

On 12/3/68, FRANK CAMPBELL, Superintendent of Mails, Passaic Post Office, advised he could locate no change of address for a SCHEFRIN from 235 Lexington Avenue, Passaic, N.J. CAMPBELL related that Dr. SCHEFRIN has been a long-time resident at 235 Lexington Avenue, Passaic, N.J.

CAMPBELL added that he learned that one AARON SCHEFRIN was a resident at 235 Lexington Avenue, Passaic, N.J., but that he has no change of address for this person. He is inclined to believe that possibly AARON SCHEFRIN may have been related to Dr. ALEX R. and ZIPPORAH SCHEFRIN.

8-25-98

- 2 - Bureau (RM)
- 2 - Pittsburgh [ ] (RM)
- 1 - Newark

REC-6

2 FEB 10 1969

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE

Class. & Ext. By SP-1 GSK/RBG  
Reason - FCIM 1-2.4.2  
Date of Review 2-7-88

~~SECRET~~  
NAT. INT. SEC.

b3  
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Buy U.S. Savings Bonds Regularly on Payroll Savings Plan

~~CONFIDENTIAL~~

5 FEB 12 01969





3-3a (Rev. 5-22-64)

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B-25-98

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~~CONFIDENTIAL~~

FBI

Date

1/30/69

10-6-03

0380758

DECLASSIFY ON: 25X

CLASSIFIED BY 60290 BCE/mLT/776

DECLASSIFY ON: 25X 1,6

Transmit the following in

(Type in plaintext or code)

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OTHERWISE

Via AIRTEL

Classified by 5084D/KR (Priority)  
Declassify on: OADR 4-24-85

TO: DIRECTOR, FBI (117-2564)

FROM: SAC, PITTSBURGH [redacted] (P)

SUBJECT: (U) DR. ZALMAN MORDECAI SHAPIRO  
(S) IS - ISRAEL  
AEA

Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM II, 1-2.4.2  
Date of Review 1-30-89

[redacted] (S) (U) has disclosed that subject has telephone  
number 391-2621 in his office at Nuclear Materials and Equipment  
Corporation (NUMEC), Apollo, Pa. (S) (U)

On 1/29/69, [redacted] advised that [redacted]

[redacted] (S) (U) In this connection it is pointed out that according to  
[redacted] and other reliable sources, subject, since the  
inception of this case, has maintained late hours in his office  
at NUMEC, Apollo, Pa. [redacted] currently reveals, however,  
that since subject returned from Israel on 12/12/68, he spends  
consistently later hours in his office on weekdays and  
increasingly longer periods of time at his office on weekends.

In view of the above, Bureau authority is requested  
for Pittsburgh to obtain through its established source, [redacted]

3 - Bureau (RM)  
2 - Pittsburgh C. C. - Bishop  
DFW/jsk  
(5)

Approved: \_\_\_\_\_  
Special Agent in Charge

M Per \_\_\_\_\_

~~CONFIDENTIAL~~

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b7E

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~~CONFIDENTIAL~~

SAC, Pittsburgh [redacted]

2/7/69

b3  
b7E

Director, FBI (117-2564)

1 - Mr. Wacks

DR. ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (S) (U)  
AEA

Classified By: 4-27-85  
Declassify on: OADR

Reurairtel 1/30/69. [redacted] Not necessary to use  
designation on airtel. Make change in copies in your files. (U)

b7E

b7D

JFW:wmk  
(4)

NOTE:

b3  
b7E  
b7D

Subject is the head of NUMEC [redacted] and we are investigating  
to determine the extent of his relations with Israeli officials.  
We have determined he is in contact [redacted]  
[redacted] with members of the Israeli Atomic Energy  
Commission. This is pertinent since subject's company processes  
uranium-235 [redacted]

[redacted] No grand jury  
subpoena should be utilized in this instance in view of the  
sensitivity of the matter. (S)(U)

CLASSIFIED BY 8221/mk/bc/n  
DECLASSIFY ON: 25X 45  
8-25-98

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
Felt \_\_\_\_\_  
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Sullivan \_\_\_\_\_  
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Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

MAILED 7  
FEB 7 1969  
COMM-FBI

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OTHERWISE

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Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM II, 1-2.4.2  
Date of Review 2-7-81 5117/82

MAIL ROOM ☐ TELETYPE UNIT ☐



UNITED STATES GOVERNMENT

## Memorandum

~~SECRET~~b6  
b7C

TO : DIRECTOR, FBI (117-2564)

DATE: 2/5/69

FROM : SAC, SEATTLE (117-222) (RUC)

SUBJECT: DOCTOR ZALMAN MORDECAI SHAPIRO  
IS - ISRAEL (U)  
ATOMIC ENERGY ACT  
OO: PittsburghClassified by  
Declassify on6685LD/124  
OADR  
X-27-85

Re Pittsburgh airtel to the Bureau, 1/14/69.

On January 28, 1969, [REDACTED]

b7D

[REDACTED] informed SA CLEMENT W. FARNHURST as follows:

Subject is well-known to the Atomic Energy Commission, Security Division, in Richland, Washington, and is currently President of Nuclear Materials and Equipment Corporation (NUMEC), and is also a director of Atlantic Richfield Hanford Company (ARHCO), a prime contractor to the Atomic Energy Commission at Richland, Washington.

[REDACTED] informed that SHAPIRO, [REDACTED] has an active security clearance at most of all of the Atomic Energy Commission facilities in the United States including an active clearance at Richland, Washington. [REDACTED] informed that as the recipient of a "Q" clearance at Richland, SHAPIRO makes numerous trips to Richland where he contacts officials of ARHCO. [REDACTED] informed that subject was investigated by the FBI in 1949, and reinvestigated in October of 1953 for his Atomic Energy Commission security clearance. He informed that SHAPIRO visits numerous Atomic Energy Commission facilities throughout the United States, and has had continuing access to sensitive data at those facilities at least since 1949. [REDACTED] informed that he believes that subject's AEC security file is probably located at the New York Office, although it may possibly be at Pittsburgh.

b7D

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
EXCEPT WHERE SHOWN  
OTHERWISE②-Bureau (RM)  
2-Pittsburgh (RM)  
1-Seattle  
CWP:dks  
(5)Class. & Ext. By SR16SK/IRB6  
Reason - FCIM II 1-2.4.2 3  
Date of Review 5/5/89

217,822

5/17/82

25 FEB 10 1969

NAT. INF. SEC.

~~CONFIDENTIAL~~

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SE 117-222

~~CONFIDENTIAL~~

b7D

[ ] informed that no unfavorable information concerning SHAPIRO has come to the attention of [ ]. He states that in view of the fact that subject has an active clearance at Richland it is not necessary for him to check in through the AEC Security Office when he makes his visits to Richland and subject can go directly to the security area operated by ARHCO with his clearance badge.

[ ] informed that subject was born May 12, 1920.

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~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

Date of Mail

1/24/69

~~CONTAINED~~  
~~EXCLUDED EXCEPT~~  
~~REVIEW~~

CLASSIFIED BY 8224 JMM/BE  
 DECLASSIFY ON 15X 1  
8-25-98

Has been removed and placed in the Special File Room of Records Branch.

II 03 R0758  
DECLASSIFIED BY  
OR 10-6-03

AUC60290 BCE/MLT/76

(A)(U)

See File 66-2554-7530 for authority.

Classified by 4-26-85  
 Declassify on: 366854/162  
 OADR

*Shapiro*

Subject

JUNE MAIL99 FEB 1969

Removed By

File Number

117-2564-187

Class. &amp; Ext. By

Reason - FCIM II, 1-2.4.2

Date of Review

217,822SP-16SK/RB624-845/17/82

Permanent Serial Charge Out

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

Date of Mail

2/10/69

#03R0758

DECLASSIFIED BY  
OR 10-6-03

AUC 60290 PCE/MET/MG

Has been removed and placed in the Special File Room of Records Branch.

~~(X)(U)~~CLASSIFIED BY  
DECLASSIFIED BY

8-25-98

See File 66-2554-7530 for authority.

Shapiro

Subject

JUNE MAIL

Classified by  
Declassify on:4-26-85  
566854D/K9  
OADR

Removed By

99 FEB 25 1969

File Number

117-2564-188

Class. &amp; Ext. By

SP-16SK/RBC

Reason - FCIM

1, 1-2.4.2

Date of Review

2-10-89

3/7/82

Permanent Serial Charge Out

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

CLASSIFIED BY ~~SP-1 GSK/RBG~~  
 DECLASSIFY ON: ~~EX-1~~  
 8-25-98

Date of Mail 1/1/69

Has been removed and placed in the Special File Room of Records Branch.

703 R0758  
 DECLASSIFIED BY ~~AD-60290 BCE/MT/HIG~~  
 ON 10-6-03

See File 66-2554-7530 for authority.

Subject

JUNE MAIL

Classified by ~~SP-1 GSK/RBG~~  
 Declassify on: ~~OADR~~

Removed By

99 JAN 27 1969

Class. &amp; Ext. By

Reason - FCIM II, 1-2.4.2

Date of Review

27,822

File Number

Permanent Serial Charge Out

~~CONFIDENTIAL~~



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DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-19-2018 BY:  

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b7c

~~SECRET~~

- 1 - Mr. DeLoach
- 1 - Mr. Sullivan
- 1 - Mr. Cotter

The Attorney General

February 12, 1969

Director, FBI

- 1 - Mr. Wacks

~~SECRET~~

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EXCEPT WHERE SHOWN  
OTHERWISE

DECLASSIFIED BY 824 JAK/AC  
DECLASSIFY ON: 25X 1.6  
8-25-78

DR. ZALMAN MORDECAI SHAPIRO  
INTERNAL SECURITY - ISRAEL  
ATOMIC ENERGY ACT

Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM 11.2.4.2  
Date of Review 2-12-89

Reference is made to my letter dated February 10, 1969, wherein I outlined the investigation conducted by this Bureau concerning Shapiro's contacts with Israeli officials,   and Shapiro's strong pro-Israel sympathies. 5/12/82

In view of the clear-cut indications of Shapiro's sympathies for Israel and his close relationship with Israeli officials,   it is believed that serious consideration should be given to removing his current access to information and materials of the most highly classified nature. It is believed the most effective action which can be taken at this time to neutralize the grave security risk involved would be for the Atomic Energy Commission to consider what administrative steps it can take with regard to Shapiro's security clearances as well as the classified contracts presently held by the Nuclear Materials and Equipment Corporation. b3  
b7E

We have kept the Atomic Energy Commission   the Department of State,

and the Internal Security Division of the Department advised on a continuing basis of the facts developed through our investigation. We are in the process of preparing on an expeditious basis a concise summary of our investigation which will be furnished to the Chairman of the Atomic Energy Commission. At this time we will request the Atomic Energy (u)

117-2564

RDC:mea  
(8)

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see note, page 2

Excluded from automatic  
downgrading and  
declassification

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Classified By SP-1 GSK/RB6  
Declassify On: 25X 1.6

MAILED 2

FEB 12 1969

COMM-FBI

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
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Sullivan \_\_\_\_\_  
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Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_  
Gandy \_\_\_\_\_

79 FEB 14 1969

MAIL ROOM ☐ TELETYPE UNIT ☐



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~~SECRET~~  
The Attorney General ~~CONFIDENTIAL~~

Commission to advise this Bureau and other interested agencies what administrative steps it intends to take regarding the classified contracts held by the Nuclear Materials and Equipment Corporation and Shapiro's security clearances. (S)(u)

We have considered interviewing Shapiro concerning his relationship with Israeli officials. It is not believed, however, that such an interview would be productive and it is considered most unlikely that Shapiro would make any pertinent admissions. (S)(u)

This Bureau plans to continue intensive investigation regarding the various Israeli representatives in the United States with whom Shapiro has been in contact as well as other individuals in this country who have been reported to be cooperating with Shapiro in securing information of value to the Israeli Government. Copies of reports in these cases will continue to be furnished to the Internal Security Division of the Department. (S)(u)

1 - The Deputy Attorney General

NOTE:

See memo Cotter to Sullivan dated 2/11/69, same subject, prepared by AJD:mea.

Classified "Secret" as unauthorized disclosure of information herein could result in identification of sensitive sources and cause serious damage to the national defense. (S)(u)

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~~CONFIDENTIAL~~  
~~SECRET~~  
~~SECRET~~



~~SECRET~~

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-02-2018 BY: [redacted]

b6  
b7C

UNITED STATES GOVERNMENT

# Memorandum

TO : Mr. W. C. Sullivan *for*

- 1 - Mr. DeLoach
- 1 - Mr. Sullivan

DATE: 2/11/69

FROM : R. D. Cotter

- 1 - Mr. Cotter
- 1 - Mr. Waks

8-25-78

SUBJECT: DR. ZALMAN MORDECAI SHAPIRO  
INTERNAL SECURITY - ISRAEL (S) (U)  
ATOMIC ENERGY ACT

4-29-75  
Classified by 566854210  
Declassify on: OADR

Tolson  
Mohr  
Bishop  
Casper  
Callahan  
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Rosen  
Sullivan  
Tavel  
Tele. Room  
Holmes  
Gandy

The Director has instructed that a memorandum be forwarded to the Attorney General outlining (1) what steps should we next take in this investigation and (2) how we can bring this investigation to a conclusion.

Shapiro is head of an Apollo, Pennsylvania, corporation which processes uranium-235 for nuclear reactors. He has the highest Atomic Energy Commission (AEC) clearances and operates under highly classified contracts with AEC. [redacted]

b3  
b7E

[redacted] He is extremely pro-Israel in attitude, has considered settling permanently in Israel, and has indicated he would fight, if necessary, for Israel. In November, 1968, he presided over a meeting in Pittsburgh, Pennsylvania, attended by Hermoni and American scientists sympathetic to Israel where Hermoni briefed the group on Israeli technical intelligence requirements in the U.S. Subject has traveled to Israel on several occasions during recent years. (S) (U)

b3  
b7E

We believe that we have three alternatives. The first would be to continue intensive investigation of subject. It is doubtful that this would furnish us more than an accumulation of information already developed indicating his pro-Israel attitude [redacted] The second would be conducting an interview with Shapiro. Pittsburgh has recommended against this approach and all indications are that Shapiro would be uncooperative. [redacted] (U)

A third approach, which we believe is the sound approach, would be the preparation on an expeditious basis of a report summarizing the subject's activities and contacts which would be furnished to the Chairman of the AEC, [redacted] and the Attorney General. (U) In this report we would point out the intensive investigation conducted and the facts developed. We would recommend that the logical steps to be taken would be that they

AJD:mea (6)

Enc. 2 - 12-69

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CONTINUED - OVER

18 FEB 14 1969

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Class. & Ext. By DPA GAK/RBC  
Reason - FCIM II, 1-2.4.2 243  
Date of Review 2/7/89  
217,852

54 117-2564-1355-1



~~SECRET~~

Memorandum for Mr. Sullivan  
RE: DR. ZALMAN MORDECAI SHAPIRO  
117-2564

AEC be requested to advise the Bureau and interested agencies the administrative steps it intends to take concerning the classified contracts held by Shapiro's company (Nuclear Materials and Equipment Corporation) and Shapiro's atomic energy security clearance. It is believed that if the AEC decides to take some positive steps to terminate Shapiro's security clearance and terminate his company's classified AEC contracts, this action could successfully neutralize Shapiro's activities. (S)(u)

We intend to continue our intensive investigation

ACTION:

If the Director approves, the third course of action outlined above will be followed and there is a letter attached to the Attorney General outlining the Bureau's views. Pittsburgh has been instructed to expeditiously prepare the summary report.

*[Handwritten signatures and initials]*  
OK W.C.A. ✓

~~SECRET~~



~~CONFIDENTIAL~~

~~SECRET~~

2/12/69

b6  
b7C

Airtel

1 - Mr. Wacks

To: SAC, Pittsburgh

From: Director, FBI (117-2564)

DR. ZALMAN MORDECAI SHAPIRO

IS - ISRAEL (S) (U)

AEA

BUDED: 2/19/69

Classified by 5668 SLD/KJ  
Declassify on: OADR  
4-29-85

ReButelephone call 2/11/69.

As indicated, summary report should be submitted to reach the Bureau no later than 2/19/69. Assure that included therein are subject's current security clearances for access to classified information and Government agencies with which subject's company has contracts. In cover letter to report submit your recommendations as to whether subject should be on the Security Index. For information Attorney General and White House have shown prime interest in this matter.

JFW:wmk  
(4)

~~CLASSIFIED BY 8224 JMK/KBJ  
DECLASSIFY ON: 6X  
8-25-78~~

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Class. & Ext. By SP-1/KSK/RB6  
Reason - FCIM II 1-2.4.2  
Date of Review 2-12-89  
5/17/82

REC-34

117-2564  
19 FEB 12 1969  
ELC

Tolson \_\_\_\_\_  
DeLoach \_\_\_\_\_  
Mohr \_\_\_\_\_  
Bishop \_\_\_\_\_  
Casper \_\_\_\_\_  
Callahan \_\_\_\_\_  
Conrad \_\_\_\_\_  
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Sullivan \_\_\_\_\_  
Tavel \_\_\_\_\_  
Trotter \_\_\_\_\_  
Tele. Room \_\_\_\_\_  
Holmes \_\_\_\_\_

MAILED 20  
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COMM-FBI

61 FEB 19 1969

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~~CONFIDENTIAL~~

*John*



~~CONFIDENTIAL~~

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DATE 5/17/82 BY SP-1 MSK/RBY

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KA 4-29-85

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OTHERWISE~~

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Class. & Ext. By SP-1 GSK/RB6  
Reason - FCIM II, 1-2.4.2 2  
Date of Review 2-10-81  
217,822 5/17/82

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NOT RECORDED

46 FEB 13 1969

5 FEB 20 1969



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EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1,6)  
DATE 09-30-2008

1 ENVELOPE

1 - Mr. C. D. Loach  
1 - Mr. W. C. Sullivan  
1 - Mr. R. D. Cotter

Sullivan

2/13/89

R. D. Cotter

1 - Liaison  
1 - Mr. J. F. Wacks  
1 - Mr. J. F. Hengemuhle

INTERNAL SECURITY - ISRAEL

(S)(U)

Classified by 568540KJ  
Declassify on: OADR

5-1-85

In view of the Administration's interest in the critical situation currently existing in the Middle East, we have prepared a synopsized memorandum for Dr. Kissinger at the White House, the Attorney General (AG), and the Secretary of State.

We conclude by advising that the above-cited matters are receiving continued and preferred investigative attention and the results thereof are being directed to interested government agencies and personalities. (S)(U)

ACTION:

It is recommended that the attached letters be forwarded by liaison to the Secretary of State and Dr. Henry A. Kissinger at the White House and to the Attorney General.

Enclosures

- 1 - [redacted] (S)(U)
- 1 - [redacted] (U)
- 1 - 117-2564 (Shapiro)

Class. & Ext. By 6-3  
Reason - FCIM II, 1-2.4.2 2+3  
Date of Review 2-13-89  
217,822 5/17/89

NOT RECORDED

46 FEB 17 1989

JFH:111 (10)

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FEB 20 1969

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-19-2018 BY: [redacted]

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~~TOP SECRET~~

- 1 - Mr. C. D. DeLoach
- 1 - Mr. W. C. Sullivan
- 1 - Liaison
- 1 - Mr. R. D. Cotter
- 1 - Mr. J. F. Wacks

February 14, 1969

BY LIAISON

- 1 - Mr. J. F. Hengemuhle

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WHERE SHOWN OTHERWISE

## ROUTE IN ENVELOPE

~~820-100-1000~~  
~~820-98~~  
Honorable William P. Rogers  
The Secretary of State  
Washington, D. C. 20520

~~ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE.~~

Dear Mr. Rogers:

I have attached for your information a memorandum

~~(S)~~ (U)

(u)  
(S)  
In view of the sensitive positions of our sources  
in this matter, it is requested that the information contained  
in the attachment be handled on a need-to-know basis.

This information has also been furnished to the  
Honorable Henry A. Kissinger at the White House and the  
Attorney General.

This matter is being afforded high priority investi-  
gative attention by this Bureau and other interested Government  
agencies are being continually apprised of the results of our  
investigations.

Sincerely yours,

~~(S)~~ (U)

1 - ~~(S)~~ (U)  
1 - ~~(S)~~ (U)  
1 - 117-2563 (Shapiro)  
JFH:111 (11)  
Enclosure

SEE NOTE PAGE TWO

Class. & Ext. By ~~6-3~~ ~~1-3~~  
Reason - FCIM II, 1-2.4.2 ~~1-3~~  
Date of Review ~~2/18/82~~ ~~5/17/82~~  
217,822

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NOT RECORDED

46 FEB 17 1969

Group 1  
Excluded from automatic  
downgrading and  
declassification

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FEB 20 1969 PAP



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~~TOP SECRET~~

Honorable William P. Rogers

NOTE:

See memorandum R. D. Cotter to Mr. W. C. Sullivan  
dated 2/13/69. [redacted]

[redacted] prepared by JFH:lll.

Classified ~~Top Secret~~ (S) (U) since unauthorized disclosure  
of this information could reveal the identity of our sources  
who are of continuing value and such revelation could result  
in especially grave damage to the Nation.

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- 2 - ~~SECRET~~

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EXEMPTED FROM AUTOMATIC  
DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE 25X(1,6)  
DATE 09-30-2008

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 09-19-2018 BY: [REDACTED]

~~TOP SECRET~~

~~SECRET~~

- 1 - Mr. DeLoach
- 1 - Mr. Sullivan
- 1 - Mr. R. D. Cotter
- 1 - Liaison
- 1 - Mr. J. F. Wacks
- 1 - Mr. J. F. Hengemuhle

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ROUTE IN ENVELOPE

CLASSIFIED BY 8224 VMB/LS  
DECLASSIFY ON: 25X  
-25-98

February 13, 1969

BY LIAISON

Class. & Ext. By 6-3  
Reason - FCIM II, 1-2.4.2  
Date of Review 2-13-89  
217,822

Classified by 56685 LDK  
Declassify on: OADR

Classified by 56685 LDK  
Declassify on: OADR

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X (U)

X (U)

SEE NOTE PAGE THREE

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b7E

- 1 - [REDACTED]
- 1 - [REDACTED]
- 1 - 117-2565 (Shapiro)

~~TOP SECRET~~

JFH:111  
(14)

Group 1  
Excluded from automatic  
downgrading and  
declassification

NOT RECORDED

46 FEB 17 1969

FEB 20 1969

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[REDACTED]

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(u) ~~(S)~~

~~(U)~~

~~(U)~~

NOTE:

Original of this LHM furnished to Dr. Henry A. Kissinger at the White House with Xerox copies to the Attorney General, the Deputy Attorney General and the Secretary of State.

Classified "~~Top Secret~~" since unauthorized disclosure of this information could reveal the identity of our sources who are of continuing value and such revelation could result in especially grave damage to the Nation.

~~TOP SECRET~~

~~SECRET~~



**SECRET**

~~TOP SECRET~~

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# ROUTE IN ENVELOPE

- 1 - C. D. DeLoach
- 1 - W. C. Sullivan
- 1 - Liaison
- 1 - Mr. R. D. Cotter

The Attorney General

February 14, 1969

Director, FBI

- 1 - Mr. J. F. Wacks
- 1 - Mr. J. F. Hengemuhle

**INTERNAL SECURITY - ISRAEL**

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(U) I have attached for your information a memorandum [redacted] A copy is also being attached for the Deputy Attorney General. (S) (U)

In view of the sensitive positions of our sources in this matter, it is requested that the information contained in the attachment be handled on a need-to-know basis.

This information has also been furnished to the Honorable Henry A. Kissinger at the White House and the Secretary of State.

This matter is being afforded high priority investigative attention by this Bureau and other interested Government agencies are being continually apprized of the results of our investigations. (U) (S)

Enclosure

[redacted]

Classified by 5-1-85  
Declassify on: OADR 5-1-85

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- 1 - The Deputy Attorney General (Enclosure)

- 1 [redacted] (S) (U)
- 1 [redacted]
- 1 117-2565 (Shapiro)

Classified by 5-1-85  
Declassify on: OADR 5-1-85  
275677  
275678

JFH:111

SEE NOTE PAGE TWO

Class. & Ext. By 6-3  
Reason - FCIM II, 1-2.4.2  
Date of Review 3/14/89  
217,822  
DUPLICATE YELLOW

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46 FEB 17 1969

Group 1  
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downgrading and  
declassification

**SECRET**

DECLASSIFICATION AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-02-2018 BY: [redacted]

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FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-15M/1P/1Q)  
DATE 08-28-2017 BY:



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~~TOP SECRET~~ (U)

The Attorney General

NOTE:

See memorandum R. D. Cotter to Mr. W. C. Sullivan  
dated 2/13/69 [redacted]

[redacted] prepared by JFH:lll.

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Classified "~~Top Secret~~" since unauthorized disclosure  
of this information could reveal the identity of our sources  
who are of continuing value and such revelation could result  
in especially grave damage to the Nation.

(u) (~~S~~)

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ROUTE IN ENVELOPE

1 - Mr. C. D. DeLoach  
1 - Mr. W. C. Sullivan  
1 - Liaison  
1 - Mr. R. D. Cotter  
1 - Mr. J. F. Wachs  
1 - Mr. J. F. Hengeman

February 14, 1969

BY LIAISON

Honorable Henry A. Kissinger  
Assistant to the President  
for National Security Affairs  
The White House  
Washington, D. C.

Classified By 2468SLDK9  
Declassify on: OADR 5-1-85

Dear Dr. Kissinger:

I have attached for your information a memorandum

(u) (S) (U)  
In view of the sensitive positions of our sources  
in this matter, it is requested that the information contained  
in the attachment be handled on a need-to-know basis.

This information has also been furnished to the  
Secretary of State and the Attorney General.

This matter is being afforded high priority investi-  
gative attention by this Bureau and other interested Government  
agencies are being continually apprised of the results of our  
investigations.

Sincerely yours,

1 - [redacted] (S) (U)  
1 - [redacted] (S) (U)  
1 - T17-2565 (Shapiro)

JFH:111 (11)  
Enclosure

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Reason - FCIM II, 1-2.4.2 3-3  
Date of Review 2-14-80

217,822

20 1969 PGP

NOT RECORDED

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Honorable Henry A. Kissinger

NOTE:

See memorandum R. D. Cotter to Mr. W. C. Sullivan  
dated 2/13/69, [redacted]

[redacted] prepared by JFH:lll.

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(U)  
Classified "~~Top Secret~~" since unauthorized disclosure  
of this information could reveal the identity of our sources  
who are of continuing value and such revelation could result  
in especially grave damage to the Nation.

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Domestic Intelligence Division

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INFORMATIVE NOTE

Date: 8/17/69

In attached letter Assistant Attorney General Yeagley requests information on behalf of AG regarding connections Shapiro has had with members of Atomic Energy Commission or AEC employees. Shapiro, head of Nuclear Materials and Equipment Corp., is under intensive investigation [as suspected Israeli agent] (U) His firm has had numerous contracts with AEC. We are expeditiously reviewing files to obtain info requested and on completion will promptly advise AG and Yeagley. (e)

RDC:mea (1)

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FBI AUTOMATIC DECLASSIFICATION GUIDE  
DATE 08-02-2018 BY: [REDACTED]

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DECLASSIFICATION  
AUTHORITY DERIVED FROM:  
FBI AUTOMATIC DECLASSIFICATION GUIDE  
EXEMPTION CODE: 50X(1,6-ISM/DIPLO)  
DATE 08-28-2017 BY: [REDACTED]

3/25/69

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AIRTEL

TO: DIRECTOR, FBI [REDACTED] (C) (U)  
FROM: SAC, WFO [REDACTED] (P) (U)  
[REDACTED] (S) (U)  
IS-ISRAEL  
(OO:WFO)

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Declassify on: OADR

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ReWFO airtel, 3/20/69.

(U)

(U)

(U)

- ② Bureau (117-2564)
- 2- Philadelphia [REDACTED] (RM)
- Pittsburgh [REDACTED] (RM)
- WFO
- (1 [REDACTED])

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Reason - FCIM 11-2.4.2  
Date of Review 3-25-89  
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FEDERAL BUREAU OF INVESTIGATION

REPORTING OFFICE <b>PITTSBURGH</b>	OFFICE OF ORIGIN <b>PITTSBURGH</b>	DATE <b>2/28/69</b>	PERIOD FOR WHICH MADE <b>5/28/68 - 2/15/69</b>
TITLE OF CASE <b>DR. ZACHARY MOSELEY</b>		REPORT MADE BY <b>822 JIM [redacted]</b>	APPROVED BY <b>[redacted]</b>
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE		CHARACTER OF CASE <b>8-25-78</b>	
Class. & Ext. By <b>SP-1 GJK/KR36</b>		(U) [S - TARGET] <b>(S)</b>	
Reason - FCIM II, 1-2.4.2 <b>2,3</b>		ATOMIC ENERGY ACT	
Date of Review <b>2/18/82</b>			

REFERENCES: Bureau airtels to Pittsburgh dated 2/11 and 12/69.

LEADS	CLASS. & EXT. BY <b>SP-4 [redacted]</b>	DATE OF REVIEW <b>2/18/89</b>	COMPL # <b>204,451</b>
<b>PHILADELPHIA</b>	<b>AT HARRISBURG, PA.</b>	<b>2,3</b>	<b>8/1/81</b>

Memo letter to Section with cc of report and let to AG, DAG, [redacted] with cc of report for [redacted]

On 2/14/69, [redacted] (established son Central Index File, DISCO, Columbus, Ohio, advised subject's OSI File No. 33-2303, is currently maintained by the Third District, OSI, Harrisburg, Pa. Will review subject's file No. 33-2303 and obtain information regarding all current classified contracts with the government. If contracts are too voluminous, discretion should be used to synopsise obtaining number of contracts and general type

ACCOMPLISHMENTS CLAIMED					ACCOUNTS	CASE HAS BEEN:
CONVIC	AUTO.	FUG.	FINES	SAVINGS		PENDING OVER ONE YEAR <input type="checkbox"/> YES
						PENDING PROSECUTION OVER SIX MONTHS <input type="checkbox"/> YES

APPROVED	SPECIAL AGENT IN CHARGE	DO NOT WRITE IN SPACES BELOW
COPIES MADE: 3 - Bureau (117-2564) (RM) 1 - Secret Service, Pittsburgh, Pa. (RM) 2 - New York [redacted] (RM) 2 - Philadelphia [redacted] (RM) 1 - Washington Field [redacted] (Info) (RM) 3 - Pittsburgh [redacted]		<b>117-2564-197</b>

<b>SECRET</b>		REFERENCE FOR [redacted]
Agency	<b>AEC</b>	<b>CONFIDENTIAL</b>



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[REDACTED]  
now in force with subject and his company, Nuclear Materials and Equipment Corporation of Apollo, Pa.

NEW YORK

NEW YORK, N. Y.

(U) Will furnish the Pittsburgh Office verification of residence and employment. This individual reportedly attended a meeting at subject's residence on 11/3/68. (C) (S) (X)

PITTSBURGH

AT PITTSBURGH, PA. (ALLEGHENY COUNTY)

1. Will await decision concerning Security Index status of subject as recommended in Pittsburgh FD-122 dated 2/18/68.
2. If approved, and Pittsburgh is specifically advised by Bureau, will forward report concerning subject to Secret Service, Pittsburgh, Pa.
3. Will continue to follow and report subject's activities.

ADMINISTRATIVE

Report is being classified "~~Secret - No Foreign Dissemination~~" due to the highly sensitive nature of information contained therein. [REDACTED]

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(U) [REDACTED] Since an unauthorized disclosure of an FBI investigation of subject could be detrimental to the national security interests of this government. (S) (X) (u)

(U) At the time of preparation of report, no identifying information re DAVID SCHERAGA, who attended 11/3/68, meeting at subject's residence was available. (S) (X) (u)

In interest of brevity, names of persons obtaining information from various agencies as well as Special Agents observing subject, his contacts and activity are not set out. Identities of individuals and Special Agents are available in Pittsburgh case files.

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[redacted] X  
A blind memo dated 7/19/68, furnished by the Bureau on 7/26/68, to Pittsburgh disclosed that during the two-year period, [redacted]

[redacted] It was learned that NUMEC had disagreements with AEC during that period. In 1964, subject appeared [redacted] (U)

(U) [redacted] Subject, acting on an unofficial approval of AEC inspectors, hired an Israeli nuclear scientist to work at NUMEC for one year. Official AEC position was one of disapproval. AEC has advised the aforementioned scientist was [redacted] (U)

Subject later sought AEC permission to have other foreign scientists to work in NUMEC laboratories. AEC stated that they disapprove of this procedure. [redacted] (U)

(U) [redacted] Investigation has disclosed that subject is known to be critical of Internal Revenue Service, "other government agencies," and President RICHARD M. NIXON.

[redacted] has advised that subject travels extensively in connection with his duties as head of NUMEC and as Vice President of Atlantic Richfield Company. Knowledge of his activity on these journeys has been minimal because discretion has indicated that any indication to subject that he is under observation could result in reducing the effectiveness of established source. (S) (U) (U)

Subject's travels have included trips to AEC installations, Washington, D. C.; Philadelphia, Pa.; New York City, N.Y.; Chicago, Ill.; Detroit, Mich.; Richland, Washington; Miami, Fla.; San Juan, Puerto Rico; and of course his journey to Israel, 11/28 - 12/12/68. (S) (U)

(U) [redacted] has indicated that subject has stated that he seeks new employees for NUMEC, who in addition to their technical skills, may have contacts in the AEC or other other government agencies. Source has indicated subject does (S) (U)

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(U) this type of thing many times in a covert or backhanded manner which reflects a character trait of ruthlessness on the part of subject. ~~(S)~~~~(S)~~

INFORMANTS

INFORMANT

LOCATION

PG T-1 is

[redacted]  
(By Request)

[redacted]

PG T-2 is

[redacted]  
(By Request)

[redacted]

PG T-3 is

[redacted] ~~(S)~~

PG T-4 is

[redacted] ~~(S)~~

PG T-5 is

[redacted]  
(By Request)

[redacted]

PG T-6 is

[redacted]  
(By Request)

[redacted]

PG T-7 is

[redacted]  
(By Request)

[redacted]

~~(S)~~~~(S)~~ u)

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INFORMANT

LOCATION

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(By Request)

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PG T-11 is

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PG T-12 is

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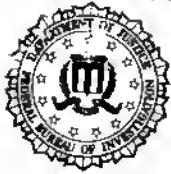
This report was prepared through the joint efforts of SAs DONALD F. WISEMAN and JOHN J. RUSSELL.

Information copy to Washington Field because of their current interest in this matter.

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~~SECRET NO FOREIGN DISSEMINATION~~

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

WASHINGTON, D. C. 20535

February 18, 1969

In Reply, Please Refer to  
File No.

Director  
United States Secret Service  
Department of the Treasury  
Washington, D. C. 20220

Dear Sir:

The information furnished herewith concerns an individual who is believed to be covered by the agreement between the FBI and Secret Service concerning residential protection, and to fall within the category or categories checked.

1. ☐ Has attempted or threatened bodily harm to any government official or employee, including foreign government officials residing in or planning an imminent visit to the U. S., because of his official status.
2. ☐ Has attempted or threatened to redress a grievance against any public official by other than legal means.
3. ☒ Because of background is potentially dangerous; or has been identified as member or participant in communist movement; or has been under active investigation as member of other group or organization inimical to U. S.
4. ☐ U. S. citizens or residents who defect from the U. S. to countries in the Soviet or Chinese Communist blocs and return.
5. ☐ Subversives, ultrarightists, racists and fascists who meet one or more of the following criteria:
  - (a) ☐ Evidence of emotional instability (including unstable residence and employment record) or irrational or suicidal behavior;
  - (b) ☐ Expressions of strong or violent anti-U. S. sentiment;
  - (c) ☐ Prior acts (including arrests or convictions) or conduct or statements indicating a propensity for violence and antipathy toward good order and government.
6. ☐ Individuals involved in illegal bombing or illegal bomb-making.

Photograph ☐ has been furnished ☒ enclosed ☐ is not available  
☐ may be available through \_\_\_\_\_

DECLASSIFIED BY 8224 JAH/AGC  
ON 7-1-98

Very truly yours,

*J. Edgar Hoover*  
John Edgar Hoover  
Director

1 - Special Agent in Charge (Enclosure(s) 2  
U. S. Secret Service, Pittsburgh, Pa. (RM)

Enclosure(s) 2

~~SECRET NO FOREIGN DISSEMINATION~~

(Upon removal of classified enclosures, if any, this transmittal form becomes UNCLASSIFIED.)



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EXEMPTION CODE 25X(1, 6)  
DATE 09-30-2008

UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

Copy to:

1 - Secret Service, Pittsburgh, Pa. (RM)

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Report of:  
Date:DONALD F. WISEMAN  
2/18/68

Field Office File #: 97-128

Classified By ~~5-8-85~~  
Declassify on ~~2025/1/15~~

Office: PITTSBURGH, PA.

Title:

DR. ZALMAN HORDECAI SHAPIRO  
~~CLASSIFIED BY 8224/mk/SC/m~~

Bureau File #: 117-2864

Character:

(U)

INTERNAL SECURITY - ISRAELI (X)(S)  
ATOMIC ENERGY ACT

Synopsis:

## SUMMARY REPORT

ZALMAN HORDECAI SHAPIRO, a 46-year-old Pittsburgh, Pa., resident, is President of Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pa. Background data regarding subject and NUMEC set forth. A 1965 investigation of subject under Registration Act provisions was terminated upon decision of Assistant Attorney General that subject not required to register under Foreign Agents Registrations Act. Subject currently holds "Q" and "Secret" clearances with Atomic Energy Commission and United States Air Force respectively. Sources, former NUMEC employees and others describe prior security conditions at NUMEC as substandard and stated they could furnish no logical explanation for reported large losses of nuclear materials at NUMEC. These individuals describe subject as an active supporter of Israel and a frequent visitor to that country. [At SHAPIRO's home, subject met with AVRAHAM YERACHMI, Scientific Counselor, Israeli Embassy, and ten other men who have special skills and knowledge in scientific and technical fields, on 11/3/68. This meeting was held to assist REEMONY in gathering necessary data in those areas for Israel. Sources

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NO FOREIGN DISSEMINATION

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downgrading and  
declassification

Class. & Ext. By SP-1 GPK/RBG  
Reason - FCIM II, 1-2.4.2  
Date of Review 1/8/89  
217,822 63/18/82

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This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

367 K7 MG  
8-27-82  
SP-4 Jm/ahr  
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8/12/81  
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Comp #207157



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Indicated SHAPIRO in contact with Colonel ABRAHAM EYLON, regarding Israeli's needs in certain unspecified areas. SHAPIRO, in connection with contact with Colonel EYLON, wrote USAM for information regarding uses and sales of Plutonium 238 (PW 238) to foreign and domestic buyers. SHAPIRO's meeting with EYLON set for 2/18/69, called off because of personal emergency of SHAPIRO. Subject and wife attended dinner at Israeli Embassy, Washington, D. C., 11/26/68; stated that dinner would give him opportunity to discuss Israeli's needs with Israeli Defense Minister who would also be present. Subject and wife visited Israel 11/26 to 12/18/68, and as a result, indicated he learned of many business opportunities in that country. Subject indicated he is acquainted with past and present head of Israeli ABC. Members of Israeli Internal Security Service visited SHAPIRO at NUREC plant. NUREC Vice President, OSCAR SHALOM GRAY, Yale University graduate, close associate of SHAPIRO, formerly associated with GE Fronts and certain Yale faculty members active in left wing causes. Subject interested in pro-Israeli Zionist causes. SHAPIRO has expressed belief Israeli's cause worth fighting for and has indicated he may settle in that country within a few years. Close friend DAVID LIEBER LOEWENTHAL, [redacted]

[redacted] a frequent visitor to Israel [redacted] 1949, subject indicated he was a member of communist front group while attending college. Physical description set out. [redacted] (S)(u)

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PREDICATION

Investigation was instituted at the request of the Attorney General to establish the nature and extent of ZALMAN MORDECAI SHAPIRO's relationship with the Government of Israel. This could be connected with, or in addition to, or as a result of, his association with Israeli officials and sympathizers in the United States. (U)

I. BACKGROUND

A. Birth

Records, Bureau of Vital Statistics, Canton, Ohio, reviewed on March 7, 1949, revealed that ZALMAN MORDECAI SHAPIRO was born May 12, 1920, at Canton, Ohio. His father and mother were listed as ABRAM SHAPIRO and MINNIE PINK, respectively, and their birth place was shown as Russia.

B. Education

Records of the Passaic, New Jersey, High School, examined during 1949, showed subject attended that high school from September 10, 1936, to January 28, 1938, and had attended post-graduate classes from February 11, 1938, to June 15, 1938.

Records, Johns Hopkins University, Baltimore, Maryland, examined during 1949, showed subject entered that university on September 22, 1938, and received an A.B. degree on June 2, 1942. He re-entered the university as a graduate student in the Chemistry Department October 18, 1942, and received his M.A. degree in chemistry November 5, 1945. He continued at the university as a graduate student and received his Ph.D degree in chemistry on June 8, 1948.

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C. Employment

Investigation during 1949 disclosed subject was employed with the following organizations on the dates indicated:

<u>Place</u>	<u>Date</u>	<u>Position</u>
Passaic, New Jersey Park Department	July and August, 1931	Playground Director
Good Humor Ice Cream Corporation, Newark, New Jersey	February 27, 1938; to April 2, 1938	Salesman
Zankel's Sportswear Shop, Passaic, N. J.	Summer Months, 1939 - 1940	Salesman
Johns Hopkins University, Baltimore, Md.	1938 - 1939	Clerical Assistant
Johns Hopkins University, Baltimore, Md.	1942 - 1947	Research Assistant (Government research)
Johns Hopkins University, Baltimore, Md.	October 1, 1946, to June 30, 1947, and from October 1, 1947 to January 31, 1948	Junior Instructor in Chemistry

[On May 24, 1968, PG T-1 advised subject was employed by Westinghouse Electric Corporation, Pittsburgh, Pa., from 1948 to 1956. During his employment with Westinghouse, he was supervisor of zirconium process development; manager, physical chemistry and chemical control; manager, chemical metallurgy and uranium oxide development; and manager, reactor design, P. W. R. Core 2.

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The "American Men of Science" (1967), a biographical directory, showed subject as President of Nuclear Materials and Equipment Corporation (NUMEC) upon his termination of employment at Westinghouse Electric Corporation. In 1967, he was President, Nuclear Decontamination Corporation, Isotope and Radiation Enterprises, Limited, (ISORAD).

Poors Register of Corporations, Directors and Executives, 1968, showed subject to be connected with the following corporations:

1. Nuclear Decontamination Corporation, President and Director
2. Greater Pittsburgh Capital Corporation, Director
3. NUMEC Instruments and Controls Corporation, Chairman
4. Isotope and Radiation Enterprises, Limited, Director

[On May 24, 1968, PG T-1 advised] that NUMEC was incorporated in Pennsylvania on December 31, 1956, and is located at Apollo, Pa. This corporation is a producer of nuclear fuel and other materials used in nuclear power reactors. It is also active in the use of radioactive materials for radiation processing and energy production.

The firm operates plants and research facilities at Apollo and Parks Township, Pa., as well as a Government-owned bare isotope separation facility at Lewiston, New York.

On June 17, 1968, a review of files concerning NUMEC located at the Office of Safeguards and Materials Management, Atomic Energy Commission (AEC), Germantown, Maryland, disclosed an intra-agency memorandum dated February 11, 1966, which concerned the "Status of

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arrangements and discussions between NUMEC and foreign business organizations." The following organizations were noted:

NUMINCO - NUMEC Instrument and Controls Company, which manufactures and markets laboratory equipment and process control equipment. NUMEC owns one third of the stock; Societe d'Applications Industrielles de la Physique, a French company, owns one third; the last third is owned by a group of private investors.

ISORAD - In connection with ISORAD, by letter dated November 3, 1966, AEC furnished the FBI a summary of the foreign activities of NUMEC, which states in part that "NUMEC is a sales agent for the Government of Israel through its Ministry of Defense, Division of Supplies, 820 Third Avenue, New York 22, New York. In this connection, NUMEC has an arrangement with the Israel Atomic Energy Commission to do biological work on insect control; and assist in establishing facilities for the irradiation and preservation of citrus fruits. In this latter connection, NUMEC and the Government of Israel (represented by the Israel AEC) have formed a company in Israel called Isotopes and Radiation Enterprises, Limited (ISORAD) which is an organization to do experimental and commercial work in irradiation processing of foodstuffs and other commodities, such as medical supplies. NUMEC and the Government of Israel are equal partners in this venture."

NUMEC's foreign sales representatives were listed as follows:

Electromecconica of Milan, Italy

A. Johnson Company - Scandinavian representative

Renee Schurmans Company of Brussels, representative for the Common Market nations.

Other miscellaneous contacts were listed as:

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Japanese Atomic Fuel Corporation

Government of Israel - providing 2 small  
3-watt terrestrial SNAP generators.

Discussions were also being held with the  
following:

Spanish Government officials regarding  
food irradiation

Mitsubishi International of Japan  
as a possible sales representative

In Germany - looking into purchase of  
Dow Chemicals' 30% interest in  
ALKEM, a German company.

In England - exploring with International  
Research and Development, Limited,  
for manufacture and sale of a laser  
ophthalmoscope.

The April 17, 1965, issue of "Business Week," a  
weekly magazine, carried an article entitled, "Plutonium edges  
its way from weapons to peaceful use in power reactors." This  
article stated in part that NUKEM announced receipt of more  
than \$1.6 billion in orders for the development and production  
of plutonium-bearing nuclear fuels. This order was in addition  
to about \$1-billion worth of plutonium fuel orders placed last  
December. The latest orders include:

1. A three-year program for the joint U.S. Maritime  
Research and Development Board involving development and  
testing of mixed plutonium oxide, uranium oxide, and  
zirconium oxide fuels for plutonium recycle in thermal  
reactors.

2. A four-year program for the U. S. Atomic Energy  
Commission for development and testing of plutonium oxide-  
uranium oxide fuels for fast breeder reactors.

3. Production of 525 fuel rods containing mixed  
plutonium and uranium oxides in ceramic pellet form for  
AEC's San Francisco operations office.

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4. Production of 800 metallic plutonium-aluminum-alloy fuel rods for the Brookhaven National Laboratory.

One of NUREC's December orders was for 530 rods of mixed plutonium and uranium oxide pellets for Westinghouse Electric Corporation to fuel a utility-owned reactor, the first such use of this fuel, according to NUREC.

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Date

6/5/68

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On 5/31/68 at Pittsburgh, Pa.

File # Pittsburgh

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by SA WAYNE MORSE /bac

5/31/68

Date dictated

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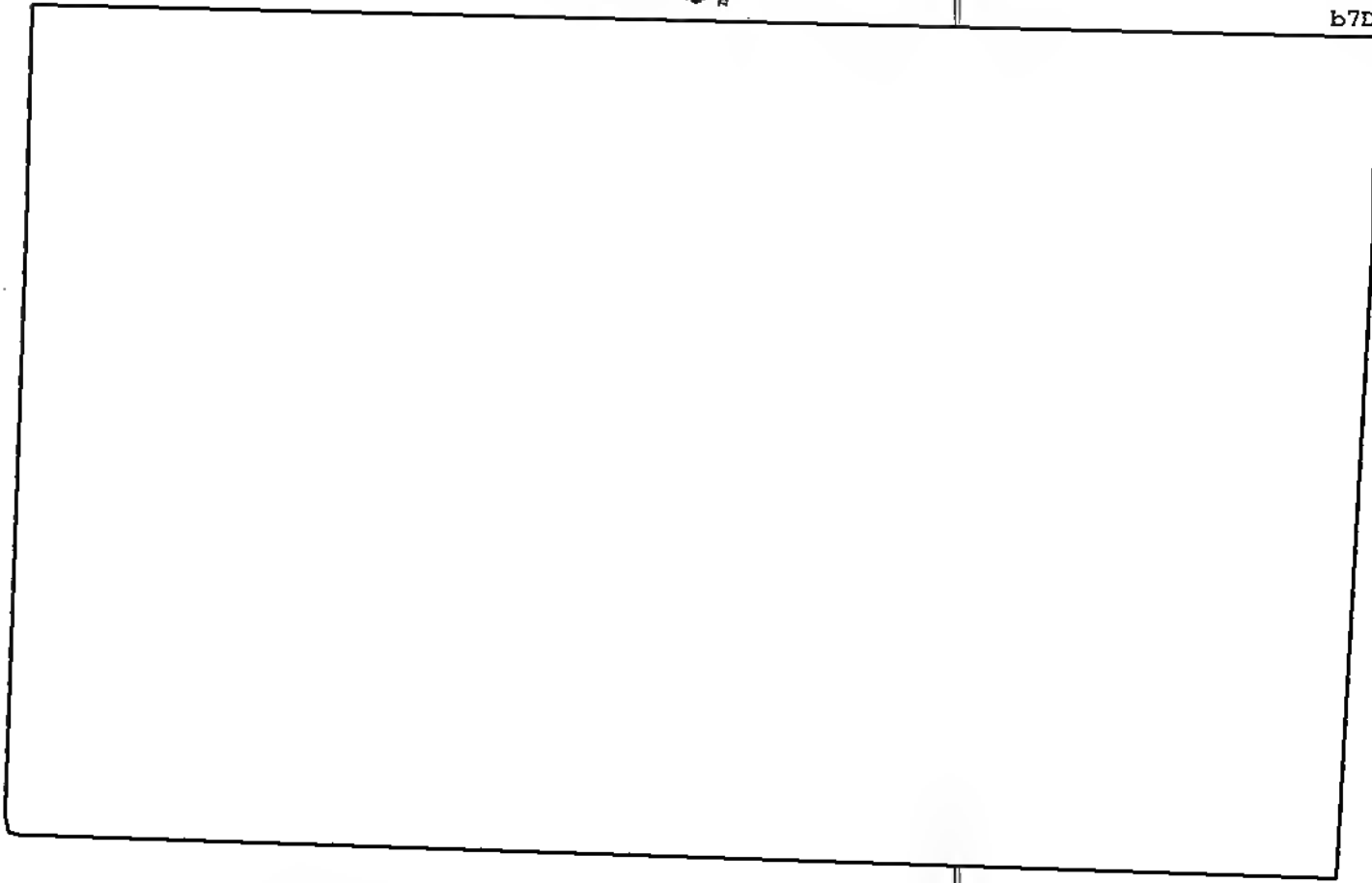
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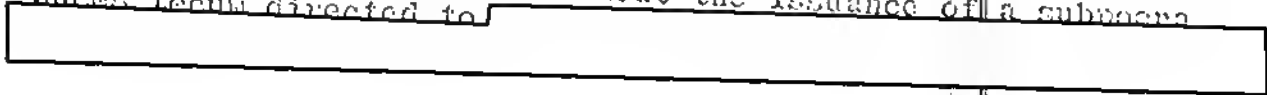
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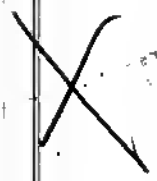


The above information is confidential in nature and should not be made public without the issuance of a subpoena duces tecum directed to

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[redacted]  
(u) ~~(S)~~ ~~(X)~~ On May 24, 1968, PG T-1 furnished the following information:

OSCAR S. GRAY, Vice-President - Treasurer, was born in [redacted]. He is single and became associated with the corporation on April 1, 1957. He graduated from Yale College and Yale Law School and holds a B.A. degree and LL.B. degree. From 1951 until becoming associated with this organization, he was a member of the Legal Advisor's Office of the Department of State, Washington, D. C. He handles financial and legal matters for the corporation. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business. He is Secretary-Treasurer of NUMEC Instrument and Controls Corporation; and is Treasurer of Nuclear Decontamination Corporation, both subsidiaries of NUMEC.

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LEONARD P. WEPFOWITZ, Vice-President, was born in 1916 and is married. He completed his formal education in 1943 and holds a B.S. degree from the University of Minnesota; earned his Ph.D. at Rutgers University. He was employed as Assistant Chemist of Rhode Island Experiment Station from 1943 to 1944; 1944 - 1945, Chemist, Los Alamos Atomic Laboratory; 1945 - 1946, Group Leader, Analytical Chemistry, Los Alamos Atomic Laboratory. In 1947, he was employed by Knolls Atomic Laboratory; and continued there until 1957, at which time he resigned. He served as Manager of Metallurgical and Chemical Analysis, and Manager of the Chemical Laboratory. He is author or co-author of over thirty papers and scientific journals, as well as many classified publications. He is a member of the American Chemical Society, A.A.A.S., and New York Academy of Sciences. He is in charge of chemistry. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business. He is General Manager of the Niagara Division, a subsidiary of NUMEC.

JACK P. NEWMAN, formerly Secretary - General Counsel of NUMEC, was born in [redacted] is married and is a native of New York State. He is an attorney by profession and a member of the Bar of New York State.

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NEWMAN is a graduate of Cornell University, School of Industrial and Labor Relations, and also a graduate of Columbia University Law School, Class of 1959. Prior to 1960, he was associated with General Counsel for the United States Atomic Energy Commission. Since 1960, NEWMAN had been counsel for the Joint Congressional Committee on Atomic Energy. NEWMAN served as a First Lieutenant in the United States Air Force from 1955 to 1957. He was elected to his present office about November 9, 1964.

FREDERICK FORSCHER, former Vice-President of NUMEC, was born in 1918 and is married. He holds B.S. and M.S. degrees from Princeton University and earned his Ph.D. at Columbia University. He was assistant civil engineer at Princeton University, 1946 - 1947; Instructor, Mechanics and Material, Columbia University, 1947 - 1952; Supervisor, Mechanical Metallurgy, Westinghouse Electric Corporation, 1952 - 1957. He is a member of the Princeton Engineering Society; A.S.M. - S.L.A. Metallurgical Literature Classification Committee; A.S.M.; A.I.M.E.; S.E.S.A.; and A.S.M.E. He is in charge of metallurgical. Life insurance in the amount of \$100,000 is carried on his life for the benefit of the business.

[On July 16, 1968, IG T-2 advised that] FREDERICK FORSCHER terminated his employment with NUMEC during 1968 and is currently employed at Westinghouse Electric Corporation, Pittsburgh, Pa.

#### D. Residence

Records of the Credit Bureau, Pittsburgh, Pa., as reviewed on May 24, 1968, disclosed subject has resided with his wife, EVELYN SHAPIRO, at [redacted] Pittsburgh, Pa., since 1956.

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Subject's residence is a modest home in a middle-class neighborhood.

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E. Status of Health

Sources familiar with subject have not furnished any information to indicate subject is not enjoying good health.

F. Foreign Travel

The files of the Passport Office, U. S. Department of State (USDS) reviewed December 1, 1965, disclosed that on June 23, 1965, subject was issued Passport F-753461 for proposed two to three weeks travel to England, France, Italy, Sweden and Israel for the purpose of business. He indicated that he would take another trip abroad within the next year. The passport will expire June 24, 1968, and may be renewed for two years.

SHAPIRO was previously issued Passport 754680 on August 12, 1955, to travel to Europe for the purpose of business.

In connection with his application for passport, correspondence from Westinghouse Electric Corporation indicated that subject's trip was being made at the request of the AEC in connection with Westinghouse Electric Corporation work in the field of atomic energy.

This passport was renewed on August 25, 1958. In a letter from subject, he indicated that he would travel to Switzerland to attend the Geneva Conference and to other European countries on business.

On February 2, 1960, he was issued Passport 1871659 for purpose of travel to France and Italy, for the purpose of business.

[On July 16, 1968, PG T-2 advised] that during the past seven years subject has visited Israel approximately three or four times a year and understood his last visit was approximately two months ago.

(U) [On December 14, 1968, PG T-3 advised that subject visited Israel with his wife, EVELYN SHAPIRO, from November 28, 1968, to December 12, 1968.]

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II. REGISTRATION ACT INVESTIGATION 1965

A. Predication

Investigation was instituted as the result of an undated memorandum from C. A. PALAZZOLO, Chief, Research Branch, Division of Security, AEC, disclosing that AEC had received information indicating subject and NUMEC, Apollo, Pa., have been negotiating with the Israeli AEC to establish a joint company in Israel. The company is to be known as the Israeli Numec Isotopes and Radiation Enterprises (ISORAD), Limited, and initially is to engage in the irradiation of citrus fruit. For this purpose, Cobalt 60 sources are to be imported from the United States.

B. Contacts with Israeli Officials

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PG T-4 advised that

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According to PG T-4.

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PG T-4 advised that

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PG 4-6 advised that ou

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[redacted]  
[redacted]  
Credit records, Indiana Credit Bureau,  
Indiana, Pa., indicate ~~DAVID I. FURDY~~ has resided at  
[redacted] and has been employed at  
NUMEC, Apollo, Pa., since 1964. He previously was  
employed by General Electric Corporation, Philadelphia,  
Pa.

C. AEC Records (1965)

On June 9, 1965, Records, Division of Security,  
AEC, Germantown, Maryland, indicated that subject maintains  
an active "Q" clearance.

On September 29, 1965, AEC files, AEC, New  
York City, reflected that as of that date subject held  
a "Q" clearance with AEC.

The file contained a memorandum dated  
May 7, 1965, to HARRY A. WALSH, Director, Security and  
Property Management Division, New York, from C. A.  
PALAZZOLO, Chief, Research Branch, Division of Security  
Headquarters, concerning SHAPIRO. This memorandum  
reflects that subject and NUMEC have been negotiating  
with the Israeli AEC to establish a joint company in  
Israel to be known as IECRAD.

An AEC inspection file contained an AEC inspec-  
tion report dated July 2, 1964, of the NUMEC, Administration  
Building, and Uranium Plants, Apollo, Pa. This report  
states in part that "NUMEC is a sales agent for the  
Government of Israel through its Minister of Defense,  
Division of Supplies, 830 Third Avenue, New York 21,  
New York. (S)(u)"

"NUMEC has a contract with Chemical and  
Phosphates Limited, Post Office Box 1428, Haifa,  
Israel, for calcium-zirconium production. This contract  
also involves a joint program in food irradiation." (S)(u)

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R 2, 4, 5, 6, 7  
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PW DOE letter  
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The inspection report also states that NUMEC has a contract with Japanese atomic firms and also contracts with the Australian Government to supply that government 330 plutonium-aluminum fuel elements. (S)(u)

The inspection report further states that NUMEC actively participates with foreign companies and foreign Governments in the field of civil nuclear energy. Further, NUMEC performs a wide range of classified and unclassified work for the AEC under various prime contracts and purchase orders. (S)(u)

The report also stated that located in the Administration Building of NUMEC, Apollo, Pa., is NUMINCO, a firm established to manufacture and market nuclear instruments and process control equipment. NUMINCO, according to this report, is owned by the Societe d'Applications Industrielles de la Physique, Paris, France, by NUMEC and by a group of private investors, each having about one-third interest. This commercial enterprise, according to this report, is completely divorced from NUMEC's AEC interests, either classified or unclassified. (S)(u)

D. Interview of Shapiro

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FEDERAL BUREAU OF INVESTIGATION

Date 6/21/66

Dr. ZALMAN MORDECAI SHAPIRO of Pittsburgh, Pa., was advised by SA DONALD F. WISSEMAN that he did not have to make a statement, and that any statements that he made must be voluntary and could be used against him in a court of law. He was also advised that he had the opportunity to consult with an attorney prior to making any statements.

Dr. SHAPIRO advised that he was born May 12, 1920, at Canton, Ohio, and furnished the following information:

He is the President of Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pa. Approximately one year ago his company and the Government of Israel formed a company known as the Israel Kamec Isotopes and Radiation Enterprises (ISORAD), Limited, on a partnership basis. NUMEC contributed one-third equity value and obtained 50% of the stock in ISORAD, and the Government of Israel owned the other 50% of the outstanding stock. The Board of Directors of ISORAD consisted of eight members, including four individuals appointed by NUMEC and four members appointed by the Israeli Government. Dr. SHAPIRO currently serves as Chairman of the Board of Directors of ISORAD. The other three members of the Board appointed by NUMEC and who are presently serving on the Board, are Pittsburgh area businessmen; namely, LEON FALK, President of a Pittsburgh re-development center; BENJAMIN ROSEN, prominent Pittsburgh realtor, and PHILLIP POWERS, past President of Western Pennsylvania Power Company who presently serves as Assistant Chairman of ISORAD.

The four Board members representing the Israeli Government occupy responsible positions in Israel, including the head of the Israel Atomic Energy Commission, head of the Research Branch of the Israel Atomic Energy Commission, and head of the Citrus Board of the Israeli Government, as well as a prominent Israeli banker. The last ISORAD Board meeting was held during October, 1965, and was attended by all the American Board members.

On 6/15/66 at Pittsburgh, Pa.

by SAs JOHN E. MCCURRY and  
DONALD F. WISSEMAN/lsp

Date dictated 6/21/66

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Lengthy negotiations were undertaken by NUREC with the Government of Israel for the purpose of organizing a company to undertake research in the field of atomic radiation. The radiation research was initiated with the hope that spoilage of citrus fruits in storage could be reduced by eradicating the bacteria which causes spoilage, and that irradiation would eliminate the transportation of live larvae of the Mediterranean fruit fly.

In addition to the citrus irradiation project, ISORAD is now engaged in research projects involving the irradiation of other agricultural products.

Prior to and subsequent to the formation of ISORAD, Dr. SHAPIRO and representatives of NUREC discussed their plans relative to the organization of ISORAD with the United States Atomic Energy Commission, the Security Division of the Atomic Energy Commission, and with an individual of the United States Embassy in Israel, believed to be the United States Ambassador. Subsequent to the formation of ISORAD, news media in the United States were furnished details of the organization and plans of ISORAD.

As a result of his association with ISORAD, Dr. SHAPIRO has had business association with JOSEPH KYAL, Science Attache, Embassy of Israel, Washington, D. C., and the Purchasing Commission of the Israeli Government in New York City. In this connection, NUREC has sold its manufactured products to the Government of Israel after securing a license from the Export Control Division of the United States Department of Commerce.

Dr. SHAPIRO has made every effort to comply with the laws of the United States in connection with his business venture with the Israeli Government. He stated that neither he nor NUREC has registered with the Registration Section of the United States Department of Justice, Washington, D. C., considering NUREC's business association with the Israeli Government as a bona fide business venture. He stated that, in his opinion, he has never operated or served as an agent of the Israeli Government or any other government. His records of shipments with the Department of Commerce are open to inspection. He considered his company's association

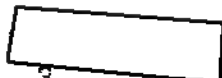
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with the Israeli Government and ISORAD as a bona fide business venture for the sole purpose of making a profit for NUMEC. His company prior to the formation of ISORAD had unsuccessfully attempted to establish business ventures with Spain and Germany.

He stated that he desired to immediately review the statutes concerning the Registration Act of 1988 for the purpose of determining if he or his company were violating the law in any manner whatsoever. He pointed out that he had never considered the possibility that he or his company were violating the law.

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E. Prosecutive Opinion

J. WALTER YEAGLEY, Assistant Attorney General, Internal Security Division, Department of Justice, Washington, D. C., advised the Federal Bureau of Investigation, Washington, D. C., by letter dated September 14, 1966, that because subject's company, NUMEC, of Apollo, Pa., acquired an export license from the Department of Commerce on its own behalf rather than that of the Israeli Government, it appears that neither subject nor his company is constituted an agent of a foreign principal under the Foreign Agents Registration Act, as amended, so as to require registration thereunder.

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III. SUBJECT'S SECURITY CLEARANCE

On February 14, 1969, Mrs. MARY RICHARDSON, Supervisor, Central Index File, Defense Industrial Security Clearance Office (DISCO), Columbus, Ohio, advised that records of that office revealed subject, who is President and Director of WUSEL, Apollo, Pa., and a resident of 5452 Bartlett Street, Pittsburgh, Pa., currently maintains a "Secret" clearance which was granted on December 1, 1960, by Air Research Development Command, New York, New York (now DISCO).

On January 28, 1969, O. R. SIMPSON, Assistant Director, AEC, Security Division, Richland, Washington, advised subject has an active security clearance at most of all AEC facilities in the United States, including an active "Q" clearance at Richland, Washington. He advised that subject visits numerous AEC facilities throughout the United States and has had continuing access to sensitive data at these facilities since at least 1968.

On June 4, 1968, WILLIAM R. BENNETT, Central Personnel Index, Division of Security, U. S. AEC, Germantown, Maryland, advised subject was granted a "Q" clearance by Chicago AEC Office in May, 1949; terminated May, 1967; granted "Q" clearance May, 1968, which is still active.

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(U) [On that date subject revealed to source that NUPEC was currently involved in the Savannah River Project and is negotiating with the Government of South Carolina regarding the disposal of atomic waste.] (S)

In connection with approved visits of a classified nature by subject to the AEC installation at Oak Ridge, Tennessee, records of that facility checked on July 8, 1968, indicate subject, between June 17, 1966, and July 18, 1967, made six visits to that facility.

The 1964 through 1967 issues of the "Nuclear Industry Magazine" contained information relating to the following projects in which NUPEC had an interest:

1964  
Boron plant contract  
Fish irradiators  
Hanford isotope plant  
Hexafluoride  
Israel project  
Sefor fuel contract  
Shippingport fuel contract

1965  
Food irradiators R&D  
Hawaiian fruit irradiators  
Indian Point  
Israel, cobalt-60 shipment to plutonium fuel  
SNAP-25

1966  
Food irradiation  
Heart pacemaker  
Scrap recovery contracts  
SNAP Generators  
Uranium contract, Sohio

1967  
Medical electric equipment survey  
Bids for Hanford contract  
Irradiated Seed Survey

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IV. INTERVIEWS WITH FORMER NUMEC EMPLOYEES AND OTHERS

[On June 25, 1968, PG T-5 advised] that he is not personally acquainted with subject, however, has known of him since 1957, and has, on two occasions, visited NUMEC at Apollo, Pa. (S)(u)

[PG T-5 advised] that subject was formerly employed at Bettis Atomic Power Division, Westinghouse Electric Corporation, Pittsburgh, Pa., and at the time of his termination to set up NUMEC, his relations with Westinghouse supervisors were believed to be other than amiable. This source was not in a position to elaborate further on this remark. (S)(u)

This source stated that several years ago he read an article in the "Wall Street Journal," which related to the fact that NUMEC had sustained unacceptable losses of nuclear material. He said it was rather common knowledge among these individuals acquainted with the security aspect of nuclear work that security conditions at NUMEC were substandard. [PG T-5] said that subject was credited with being the engineering genius behind the development and manufacturing of U-235 at NUMEC. He went on to say that NUMEC has experienced financial difficulties which, in view of their apparent progress, is not quite understandable. This source said subject is known to be interested in the stock market and reportedly has done quite well financially in stock investments. Subject, [according to PG T-5], is reported to have many diversified financial investments and has maintained the reputation of placing his own interest before any company with which he is affiliated. (S)(u)

[On July 3, 1968, PG T-6 advised] that he is not personally acquainted with subject, but has been closely associated with NUMEC and in this connection has come in contact with subject at several nuclear meetings. This source advised that during 1966, AEC conducted an investigation at NUMEC in an effort to determine the cause for a loss of quantity of enriched uranium which occurred at NUMEC apparently for a period of several years. (S)(u)

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(S) (u) [PG T-6 advised] that following the inspection at NUMEC, an article appeared in the Paris, France, edition of the "New York Times," entitled, "U. S. Plant Loses 100 Kilos of U-235." This article was dated Washington, September 18, 1956, and was written by JOHN R. FINNET. This source advised that the article in general stated that AEC had recently discovered that one of its industrial contractors had lost more than 100 kilograms of enriched uranium and enough to fabricate half a dozen atomic bombs.

The article indicated that the loss of this enriched uranium indicated that possibly inadequate controls were being utilized in this country in connection with nuclear materials.

(S) (u) [PG T-6 advised] that following aforementioned news article, the Congress of the United States held hearings in Washington, D. C., and AEC promoted several meetings in connection with the problems of safeguarding nuclear materials management. At approximately the same period of time, an Ad Hoc Advisory Panel was established and during March, 1957, disseminated a lengthy report on the safeguarding of special nuclear materials, which was followed by the formation of the Division of Nuclear Materials Safeguard.

Following this action by AEC subject, [according to PG T-6] in an effort to improve security conditions at NUMEC, hired a former AEC inspector. (S) (u)

(u) (S) [PG T-6 advised] that NUMEC frequently sends individuals and groups of atomic scientists from NUMEC to other countries to assist these countries in the field of atomic energy.

(u) (S) [PG T-6 advised] that three or four years ago a group of atomic scientists from NUMEC were reported to have visited Israel for the purpose of assisting that country in their development of atomic energy facilities.

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(u) ~~(S)~~ (u) According to PG T-6, Westinghouse Electric Corporation of Pittsburgh, who has had contracts with NUMEC to handle its nuclear scrap, was invariably advised by NUMEC that Westinghouse had overestimated the amount of nuclear materials in the scrap. This source advised that it was common knowledge that Westinghouse's estimates were generally reliable and accurate. PG T-6 speculated that over a period of several years, NUMEC was, therefore, in a position to accumulate a considerable amount of nuclear materials for which there was no accounting as far as the official records were concerned. (u) ~~(S)~~ (u)

(u) ~~(S)~~ (u) On July 16, 1968, PG T-2 advised that the primary work of NUMEC is the manufacture of fuel for nuclear reactors and to reprocess fuel scraps left over after manufacture. ~~(S)~~

(u) ~~(S)~~ (u) PG T-2 advised that NUMEC also receives material from other firms for recovery of nuclear materials through its recovery and reprocessing machinery. PG T-2 stated that an attempt in September, 1961, was made by NUMEC to effect a material balance, i.e., determine if all material being reprocessed was being accounted for. This balance was not obtainable. PG T-2 related because the methods and processes being utilized by NUMEC were not thorough enough. After a new processing method was installed which entailed the use of additional filters, PG T-2 stated the losses were reduced considerably and a savings to the company resulted. (u) ~~(S)~~ (u)

(u) ~~(S)~~ (u) PG T-2 pointed out some of the firms that dealt with NUMEC would dispute NUMEC figures on the amount of material recoverable and stated as recovered by NUMEC. This source said litigation was initiated by some firms so their material would be either recovered or the firms would receive cash to compensate for their losses due to NUMEC's poor processes. (u) ~~(S)~~ (u)

(u) ~~(S)~~ (u) PG T-2 pointed out the two materials used in reactors, uranium and plutonium, are obtained from AEC installations for use in the various products and the nuclear materials left over on recovery from scrap and waste must be returned to the AEC establishment. A penalty is imposed on the firm if the nuclear material is not returned within a set period of time, usually 60 days. PG T-2 related. The failure to reprocess and recover materials quickly, efficiently and thoroughly. (u) ~~(S)~~ (u)

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[redacted] (u)  
(u) (S) (X) PG T-2 said resulted in financial losses to NUMEC, which PG T-2 advised he heard reached over \$500,000. X

(u) (S) (X) PG T-2 added that subject is an active supporter of Israel; has traveled there frequently; and has produced at least one large feed irradiator for that country. This source pointed out subject has directed that all profits from NUMEC vending machines, candy, cigarettes, food, soft drinks, etc., would be used for CARE packages to Israel.

On August 13, 1968, PG T-2 advised that in discussing the shortages of enriched uranium at NUMEC over a five year period, that this source learned from a NUMEC employee that in 1966 the AEC conducted an inspection of the NUMEC facilities. PG T-2 (S) (X) (u) also learned from this employee who was in a position to establish a reason for large losses, that he was unable to explain the shortages. Employee advised PG T-2 (S) (X) (u) he had no reason to suspect that subject or any employee of NUMEC stole the material, but no logical explanation could be offered by the employee.

(u) (S) (X) PG T-2 also related that an incident was brought to his attention by another NUMEC employee which involved the inventory of nuclear materials in the NUMEC vault. This second employee advised PG T-2 (S) (X) (u) that he was instructed to inventory the contents of the vault and after completing the task, gave his figures to a supervisor. The supervisor questioned the figures, asserting there should be more materials than the employee reported and when employee refused to change his figures, the superior discarded the inventory and had another employee recount the materials.

(u) (S) (X) PG T-2 also related that a fire occurred in the NUMEC vault approximately four years ago. PG T-2 (S) (X) (u) related that some nuclear materials and records were destroyed, but the exact losses were never ascertained. This source also pointed out that the AEC has inspected and inventoried NUMEC more frequently than average due to shortages arising at the plant.

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[redacted]  
On December 18, 1968, [redacted]

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He stated that NUMEC was a fifty per cent owner of a corporation known as ISORAD and the other fifty per cent was owned by the State of Israel. This corporation was organized for the purpose of experimenting and the production of radiation techniques. He stated that the use of radioisotopes was to be developed by this corporation for various purposes, including the inspection of the shelf life of oranges in Israel.

It would also be used for the radiation of fruit flies which, it was hoped, would develop in the destruction of fruit flies in Israel; \$25,000 was invested by NUMEC and \$25,000 was invested by the State of Israel in order to organize ISORAD. NUMEC got back most of the \$25,000 by selling to ISORAD a radiator developed by NUMEC. He added that ISORAD never accomplished anything beyond the experimental stage and experiments were conducted in Israel for the above stated purposes. He added that NUMEC was a totally independent corporation, of which the subject was President until April 17, 1967, when it was acquired by the Atlantic Richfield Corporation. He stated that the subject is a Vice-President of Arco Chemical Company, a division of Atlantic Richfield Corporation.

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[redacted] continued that ISORAD had no personnel assigned to duty in the United States and had no building sites in the United States. Certain Israeli persons would have titles in ISORAD and conducted the above stated experiments in Israel.

[redacted] went on to say that the subject was very friendly with Israeli Scientific Attaché at the Israeli Embassy in Washington, D. C., both professionally and on a social basis. He did not recall

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[redacted]  
the names of any of the Israeli personnel with whom the subject was in association.

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On November 22, 1968, [redacted] Lawrence Radiation Laboratory (LRL), Livermore, California, advised that about three years earlier, he had partial responsibility for a project in the Special Materials Group (SMG) involving a research and development contract with SHAPIRO's firm, NUMEC, for the processing of nuclear material. SHAPIRO and his firm had been a source of concern to [redacted] because LRL furnished NUMEC special nuclear material for processing and the firm had been unable to satisfactorily account for quantities of such material. [redacted] noted that accountability is strict because of the cost, and toxicity of this substance. Past experience with processes of the type conducted by NUMEC had established average percentages of loss to be expected, but the firm rather consistently reported losses in excess of these criteria.

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On January 17, 1969, [redacted] LRL, advised that for a period of about two and one-half years beginning four years earlier, he had been directly involved with the contract between LRL and NUMEC under which the firm processed nuclear material. During this time, he had occasion to meet with SHAPIRO at LRL on two or three occasions and met him at his company on a number of occasions.

Certain aspects of the performance of NUMEC under the contract had been unsatisfactory, particularly in the area of health standards expected of the firm in handling toxic materials, regarding routine handling and safeguarding of classified information furnished the company and regarding unexplained loss of nuclear material.

Under the contract, NUMEC was furnished highly sensitive information in the source classification concerning operations at LRL. [redacted] had no reason to think that such information had ever been compromised in any manner through the actions of anyone in the firm. He did note, however, that security procedures in handling such information had been unsatisfactory and felt this would enhance the possibility of inadvertent compromise.

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V. CONTACT WITH ISRAELI OFFICIALS

(U) Meeting At SHAPIRO  
Residence November 3, 1968

(U) PG T-3 advised on November 3, 1968, that a meeting was held at SHAPIRO's home, Pittsburgh, Pa., on that date, which was attended by Dr. AVRAHAM HERMONT, Israeli Scientific Counselor, Washington, D. C., and persons named below. PG T-3 advised that, among other things discussed at this meeting, it was brought out that Israel needs information regarding large intensifier tubes; information concerning the over-all field of reliability and failure rates of certain manufactured products including any studies completed in this field; information concerning the training of personnel in the operation of pressurized water reactors, including the placement of such personnel in a training program in the Westinghouse Electric Corporation (WEC) at Pittsburgh, Pa.

In addition to the items mentioned above, PG T-3 advised on November 8 and 9, 1968, that HERMONT was also interested in a personnel detection device manufactured by WEC. According to this source, SHAPIRO also indicated on November 8, 1968, that Israel is also seeking information regarding water poisoning, especially how bacteriological or radiological poison would effect specific chemicals in a water system. PG T-3 was not able to furnish any additional data regarding specific items mentioned by HERMONT and others at the meeting but SHAPIRO, according to this source, indicated each person at the meeting was given a specific assignment to obtain information needed by Israel and should furnish the information to HERMONT either orally or in writing. SHAPIRO also expressed the hope that persons at the meeting who were given assignments by HERMONT will be patient and productive as HERMONT is probing in many fields and Israel needs the information on an urgent basis.

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[ ]

PG T-3 advised on November 3, 1968, that the following persons attended the meeting at SHAPIRO's home on that date, and during the morning of November 3, 1968. Special Agents of the FBI observed these individuals enter SHAPIRO's residence at Pittsburgh, Pa. Background data concerning these individuals was obtained, in part, from "American Men of Science - a Biographical Directory," (1967 Edition) - which will be referred to as AMS. [ ]

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Dr. BENJAMIN F. MILLER -- On October 30, 1968, records of the Personnel Office, University of Pennsylvania, Philadelphia, Pa., reflected that Dr. BENJAMIN F. MILLER is an Associate Professor in Surgical Research at the school. According to these records he was born September 10, 1907 at Fitchburg, Mass., and currently resides at Philadelphia, Pa. He is married to JUDITH WINTERSTEIN MILLER and they have four children. MILLER attended Harvard Medical School receiving an MD Cum Laude in 1933. He has been employed in various clinics and hospitals in New York, Chicago, Washington, D. C., Cambridge, Mass., and Cincinnati, Ohio. (U) ~~(S)~~ (U)

(U) [ JOSEPH LEPPERT -- AMS reflects that LEPPERT was born July 3, 1913, at North Adams, Mass.; was educated at Massachusetts Institute of Technology (MS) and Stevens Institute (MS); is married and has three children; and lives at 140 Spring Grove Road, Pittsburgh, Pa. LEPPERT has been employed at WEC since 1936 in various capacities at different WEC installations; he is presently employed at WEC Research and Development Center; that his special fields include x-rays, electronic lenses, electronic welding and x-ray image intensification. PG T-5 advised on January 21, 1969, that LEPPERT received a Department of Defense (DD) "Secret" clearance through Defense Internal Security Clearance Office, (DISCO), Columbus, Ohio, on November 19, 1968. ~~(S)~~ (U)

(U) [ Dr. FREDERICK BAUMANN -- AMS indicates BAUMANN was born September 13, 1919, at Vienna, Austria; obtained a PhD degree in Chemistry in 1949 from Johns Hopkins University. Pittsburgh Credit Bureau records reflect BAUMANN was at ~~(S)~~ (U)

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[redacted] Pittsburgh, Pa., with his wife KHALIA; that he has been a Professor of Chemistry at the University of Pittsburgh since 1964; that he was employed at the Aberdeen Proving Grounds, Maryland in the past. While at Aberdeen he was Supervisory-Chemist and Chief of the Physical Chemistry Section. (U) (S) (C)

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Dr. EDWARD ISAAC SALKOVITZ -- AMS indicates SALKOVITZ was born September 3, 1917, at Braddock, Pa.; obtained BS, MS and D of Sc Degrees from Carnegie Institute of Technology (now Carnegie Mellon University), Pittsburgh, Pa. He has been employed at the University of Pittsburgh since 1964 and is Chairman of the Department of Metallurgy and Materials Engineering at that school. Prior to coming to the University of Pittsburgh he was employed in various capacities in the Office of Naval Research at Washington, D. C. Pittsburgh credit records reflect he lives with his wife SUZANNE and family at [redacted] Pittsburgh, Pa. (U) (S) (C)

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Dr. JEROME LAIS ROSENBERG -- (U) (S) (C) indicates ROSENBERG was born [redacted] at Harrisburg, Pa.; obtained MA and PhD Degrees from Columbia University in Physical Chemistry. He has been employed at the University of Pittsburgh since 1963 in the Chemistry Department and is a full Professor at that school at present. He was employed by the JRC as a Fellow and Associate in Chicago 1948-53. Pittsburgh credit records reflect ROSENBERG lives with his wife SIOSEMA at [redacted] Pittsburgh. Records of the U. S. Department of State, Passport Office, Washington, D. C., as checked January 15, 1969, revealed that ROSENBERG in 1962 had a Research Fellowship at Technion, Haifa, Israel, which would require an eleven month stay by ROSENBERG in that country. (U) (S) (C)

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(U) Dr. BENJAMIN MORTON SINGER -- AIS indicates SINGER was born March 24, 1916, at Superior, Wis.; obtained PhD degree (Physics) from Massachusetts Institute of Technology in 1949. He has been employed at Cornell University, Ithaca, New York since 1949 in Engineering Physics and is now a full Professor at that school. In 1962-63 he was visiting Professor, Hebrew University, Israel. He is married and has three children. (S)(C)

(U) Dr. MARCEL ABRAMOW SCHERAGA -- AIS indicates SCHERAGA was born [REDACTED] at Brooklyn, New York, received BS (MS), Duke University (MS and PhD), all degrees in Chemistry. He has been employed at Cornell University since 1947 and is now a full Professor of Chemistry at that school. In connection with his field of Chemistry, SCHERAGA has been to Benmark, Israel and Australia. He was a consultant to the Brookhaven National Laboratory, 1960-66. He resides at Ithaca, New York. (S)(C)

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(U) DAVID I. SCHERAGA -- This individual was observed by Special Agents of the FBI deplaning from TWA Flight 197 from Idlewild Airport, New York City, at the Greater Pittsburgh Airport, on November 3, 1968, at 10:20 AM. He was observed in the company of Dr. AVRAHAM HERSKOWITZ, Dr. BENJAMIN F. MILLER and Mrs. ZALMAN (EVELYN) SHAPIRO, subject's wife, at the subject's residence. SCHERAGA entered with the above named persons at 11:05 AM, November 3, 1968. (S)(C)

(U) [In addition to the above mentioned individuals who attended the meeting on November 3, 1968 it is pointed out that PG T-1 has advised that Dr. ROBERT HEXTER and Dr. JACOB H. COHEN were invited but were unable to attend.] (S)(C)

(U) Dr. ROBERT HEXTER -- Pittsburgh Credit Bureau records reflect HEXTER resides with his wife, NORMA, at [REDACTED] Pittsburgh, and is employed as a chemist at Carnegie-Mellon University, Pittsburgh, in Industrial Research. AIS indicates HEXTER was born [REDACTED] at Atlanta, Ga., and obtained a BS and MS from Columbia University, New York City. He was also a visiting Professor at the Israel Institute of Technology during 1961 and 1962. (S)(C)

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[ ]  
Dr. JACOB E. GOLDMAN -- According to press releases prepared by the Ford Motor Company, Detroit, Mich., GOLDMAN was Director of the Scientific Laboratory for the Ford Motor Company, entering on duty with that firm in 1955. He was born [ ] Brooklyn, New York; obtained degrees from Yeshiva University (BS) and University of Pennsylvania (MS and PhD); he was employed at UP, University of Pittsburgh and Carnegie Institute of Technology. He was a Consultant to the U. S. AEC; he was invited to the USSR by the Soviet Academy of Science in 1960 as part of a United States Department of State sponsored program. (S)(X)(C)U

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(U) -- Others who attended the meeting at SHAPIRO's there on November 3, 1968, who were not among the original invitees, were the following: According to PG T-3. [ ] These persons were not cleared by FBI Special Agents: (S)(X)(C)U

Dr. DRIT JORON STERNGLASS -- AHS indicates STERNGLASS was born [ ] Berlin, Germany, obtained his degrees in Electrical Engineering from Cornell University in 1944 and obtained a PhD in Physics from the same school in 1953. He has worked at WEC since 1952, now holding the post of Advisory Physicist. Pittsburgh Credit Bureau records reflect STERNGLASS lives with his wife MARYLYN at [ ] Pittsburgh. Passport record, Washington, D. C., as checked January 16, 1969, reflect that STERNGLASS intended to travel to Israel, France and England in 1968 when he received his passport. These records also indicate that STERNGLASS was naturalized a United States citizen at Ithaca, New York, [ ] PG T-5 advised on January 21, 1969, that STERNGLASS received a DOD "Secret" clearance through DISCO, Columbus, Ohio, January 13, 1963. (S)(X)(C)U

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(U) -- TSELOORA STERN -- AHS indicates STERN was born [ ] Frankfort-Am-Main, Germany, obtained B of Sci Degree from Pratt Institute, New York City, 1951, M. Degree 1956 from NYU. STERN has been employed at WEC since 1950 and is presently General Manager, Pressurized-Water Reactor, Plant Division, Atomic Power Division, WEC. (S)(X)(C)U

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[ ]  
(U) Pittsburgh credit records reflect SHAPIRO lives with his wife ELIZABETH at [ ] Pittsburgh, Pa. It is noted SHAPIRO was consulted regarding pressurized water reactors and the training of personnel to operate them in conjunction with this meeting. (S)(X)

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(U) [ ] With regard to this meeting, it is also pointed out SHAPIRO, according to PG T-3, [ ] discussed the water poisoning information with ELIZABETH A. SHAPIRO, on November 5, 1968. (S)(X)

(U) MAURICE A. SHAPIRO - AMS indicates SHAPIRO was born June 4, 1917, Denver, Colo.; obtained an MS Degree from John Hopkins (1941), Master of Engineering University of California (1949). He was visiting Professor at the Israel Institute of Technology 1965-66. The 1967-68 University of Pittsburgh Faculty and Staff Directory reflects SHAPIRO is Professor of Environmental Health, Department of Public Health Practice, Graduate School of Public Health, University of Pittsburgh. Pittsburgh credit records reflect SHAPIRO resides at [ ] Pittsburgh, with his wife ANNE K.; that he formerly resided, year not indicated, at 9 Masrah Street, Tel Aviv, Israel. (S)(X)

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(U) [ ] Contact With Colonel AVRAHAM LYONIE (S)(X)

(U) PG T-3 advised [ ] on October 10, 1968, that SHAPIRO discussed with one LYONIE (phonetic) that LYONIE planned to leave the United States from New York City to return to Israel on October 12, 1968. LYONIE and SHAPIRO, according to this source, discussed the impending sale of United States jet fighter planes to Israel and LYONIE appeared optimistic, believing the deal would go through. SHAPIRO thought the United States would hold the planes as a bargaining tool in the Israeli-Arab negotiations, and he was not optimistic about Israel's chances of getting the planes. SHAPIRO, according to this source, said he would like to celebrate (S)(X)

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(U) the fact that Israel obtained the planes when and if they do. ~~(S)~~ ~~(F)~~

According to PG 7-3, [SHAPIRO pointed out to LIONIK that he was working on certain problems regarding unused materials of interest to Israel. In connection with these materials, SHAPIRO related he had written to the United States AEC for general information regarding availability of materials for domestic and foreign use. Source indicated SHAPIRO said he requested speedy action on his letter as sales and development matters depended on the AEC's reply.] ~~(S)~~ ~~(F)~~

(U) [SHAPIRO indicated, source advised, he would be in contact with LIONIK in Israel when he visits that country in November or December, 1968.] ~~(S)~~ ~~(F)~~  
(U) According to PG-3, [SHAPIRO indicated he had discussed the whole matter with ABRAMSON, MERRIONI and REYNAUD BIEHL and they are also anxious to move ahead in these matters.] ~~(S)~~ ~~(F)~~

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(U) [With regard to the letter mentioned above by SHAPIRO, it is pointed out AEC, Washington, D. C., made available a copy of SHAPIRO's letter to that agency. SHAPIRO's letter dated October 8, 1968, generally, made inquiry regarding availability, handling, shipping and use of Plutonium 238 (Pu 238). His letter also specifically asked for information regarding microwatt and milliwatt thermoelectric generators powered by Pu 238 and the sale of ~~(S)~~ ~~(F)~~ ~~(U)~~

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these items to foreign and domestic customers. (S)(u)

AEC Chairman Dr. GLENN T. SEABORG, by letter dated November 26, 1958, advised SHAPIRO that Pu 238 can be used for foreign and domestic applications; that criticality of Pu 238 is the determining factor in the use of that material in generators and other uses; that licensing by the AEC would dictate what producers would use Pu 238 in certain products for either foreign and domestic users. (S)(u)

(U) — [On February 16, 1963, PG T-3 advised that subject's wife, EVELYN SHAPIRO, contacted JEROME HARMONY on that date to advise that subject would be unable to meet with HARMONY as planned. EVELYN SHAPIRO explained to HARMONY that a personal emergency had arisen, and that subject would contact HARMONY and reschedule the meeting for a later date.] (S)(u)

(U) — PG T-3 advised on February 19, 1963, that SHAPIRO cancelled his appointment with [redacted] b6 b7C

(U) — [redacted] X

(U) — [redacted] (S)(u)

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(U) [Dinner at Israeli Embassy, Washington, D.C.] ~~(S)~~ ~~(X)~~

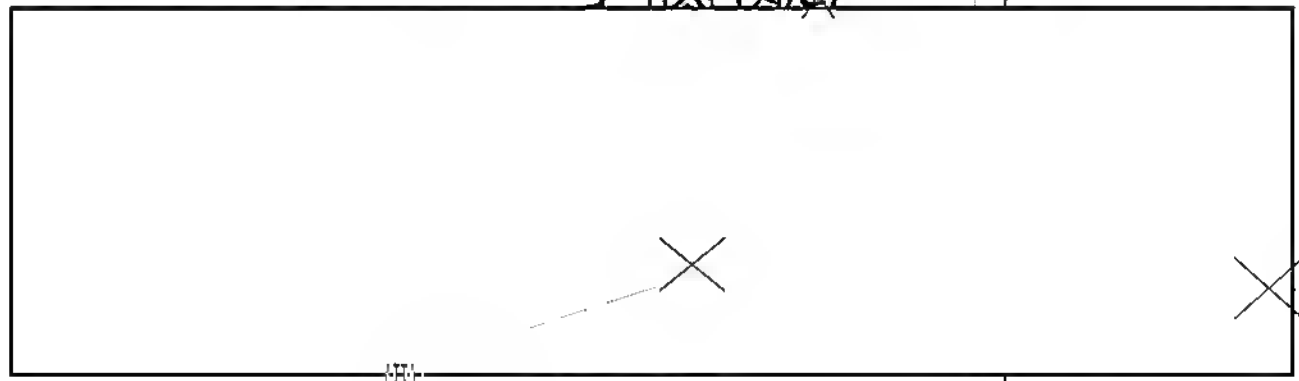
(U) PG T-3 advised on November 8, 1968, that SHAPIRO indicated that he and his wife, MYRLYN, would attend a dinner at the Israeli Embassy, Washington, D.C., on November 26, 1968. SHAPIRO related he had received a written invitation from the Israeli Ambassador to the United States, YECHIAK RUBIN, the dinner being held to honor the Israeli Defense Minister. ~~(S)~~ ~~(X)~~

(U) [SHAPIRO] according to PG T-3, would be able to discuss with the Defense Minister the matter of image intensifier tubes and the exact nature of Israeli problems in that field. ~~(S)~~ ~~(X)~~

Miscellaneous Contacts

(U) PG T-3 advised on October 6, 1968, that subject told his sister, Mrs. ALICE (phonetic) BERGMAN, who was preparing to visit Israel October 16, 1968, that she should contact ERNST BERGMAN (phonetic) while she is in that country and extend his greetings to BERGMAN. SHAPIRO pointed out to his sister that she would find BERGMAN interesting and extraordinary. SHAPIRO also advised his sister to be sure and get in touch with Dr. ERNST LUBIN (phonetic), a native of Argentina presently in Israel, who is also very interesting. ~~(S)~~ ~~(X)~~

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On September 6, 1968, CIRM PALAZZOLO, Security Office, AEC, Germantown, Maryland, advised that AEC, New York, had recently been requested by the following individuals to visit NUREC, Apollo, Pa.: (S)(u)

AVRAHAM HERMONI,  
Scientific Counselor,  
Israeli Embassy,  
Washington, D.C.

Dr. EPHRAIM BIEGUN,  
Department of Electronics,  
Israel.

born - [REDACTED] London (u)

AVRAHAM BENDOR,  
Department of Electronics,  
Israel.

born - [REDACTED] Israel

RANIEL LITAN,  
Chemist,  
Ministry of Defense,  
Israel.

born - [REDACTED] Israel

Per DOE letter  
7-29-82

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On September 6, 1968, CIRM PALAZZOLO, supra, advised that NUREC Security Manager indicated that (U) HERMONI and BIEGUN would visit NUREC to discuss with SHAPIRO thermoelectric devices; the proposed date of visit to be September 26, 1968. (S)(u)

On October 7, 1968, PALAZZOLO advised that (U) HERMONI, BENDOR, LITAN and BIEGUN, Israeli citizens, visited NUREC September 10, 1968. (S)(u)

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(U) PG T-3 advised, on December 15, 1968, that on that date subject was in contact with individuals in the Pittsburgh area concerning his visit to Israel which began November 28, 1968, and ended December 12, 1968. According to PG T-3, subject informed JOSEPH BLARIZ, an attorney and long-time personal friend and business associate, that in addition to appointments with Israeli people, he attempted to conduct some NUREC and ISRAELI business. Subject indicated he had discussed several business opportunities with people in Israel. (U) (S) (C) (X)

(U) According to PG T-3, SHAPIRO also discussed his recent trip to Israel on December 15, 1968, with CHAS GRAY, an attorney from Washington, D.C., and Vice President of NUREC. According to this source, SHAPIRO indicated his two-week visit to Israel was hectic but it was also fruitful in that he gained a better understanding of the current political situation in Israel and in addition, was furnished information concerning several business opportunities of mutual benefit to Israel and himself. Source indicated SHAPIRO believes Israeli officials are disorganized and discouraged; that they are skeptical about receiving jet fighters from the United States; that ABRAHAM SCHEINER's visit for President-Elect NIXON did not hold the authority to make any final decisions on the Middle East. (U) (S) (C) (X)

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PG T-3 [ ] stated that SHAPIRO pointed out to GRAY that Israel's immediate need is financial and at this stage the government appears to be unable to trust anyone. It was the subject's opinion that Israel is capable of building fighter planes but their lack of knowledge in the new technologies prevent them from going ahead in this field. ] (S) (X) (C)

(U) [ ] SHAPIRO, according to PG T-3, [ ] pointed out to GRAY that one business proposition was of interest to him in particular. He said it involved building a testing laboratory in Israel and the Israeli Government is willing to guarantee two million five hundred thousand dollars if five hundred thousand dollars can be raised by the subject. Subject indicated he is interested in attempting to raise that last named amount. Subject also mentioned to GRAY that the Israeli Government is interested in starting an aluminum extrusion facility, but this would take a two million dollar investment. SHAPIRO said this is a sound investment inasmuch as an investor could get ownership of half of the extrusion plant for two million dollars. ] (S) (X) (C)

(U) PG T- [ ] said subject also discussed other business opportunities, including a complete aluminum industry, nuclear centers, drilling techniques for use with diamonds. Subject indicated, however, that the most attractive deal appeared to be the laboratory, and he was going to pursue this matter further. ] (S) (X) (C)

OSCAR SHALON GRAY, a Yale University graduate, when filing a P39 in connection with a government inquiry in 1969, indicated that he was on the mailing list of the Progressive Citizens of America, Student Group, formerly known as the Independent Citizens Committee. (S)

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of the Arts, Sciences and Professions, (IOCSAP) in 1964. GRAY also indicated he was formerly associated with the New Haven Civil Liberties Association (NHCLA) which was headed by Yale Professor THOMAS I. BARNES. (S) (u)

In 1964, GRAY listed our Professor FOWLER V. HARTSH, Yale University, New Haven, Connecticut, as a reference in connection with an application for government employment. (S) (u)

It is noted in the House-Committee on Un-American Activities Report (HCUA), dated December 1, 1961, the IOCSAP was cited by that Committee as a Communist front. (S) (U)

Professor THOMAS I. BARNES was identified in 1960 by LOUIS WILSON, former Managing Editor, "Daily Worker," erstwhile communist newspaper, as a connected CP member.

Professor FOWLER V. HARTSH, Yale University, was named as a member of several organizations which have been cited by the HCUA or the Attorney General, in accordance with Executive Order 10450, as Communist fronts, such as, to name a few, Emergency Civil Liberties Committee; American Committee for Protection of Foreign Born; National Lawyers Guild; Communist "Peace Solution" Campaign. According to HCUA publication cited above, HARTSH also active in various CP causes and activities beginning in 1958.

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[On April 26, 1960, PG T-39, another Government agency which conducts security investigations, advised that on April 4, 1960, Dr. BENJAMIN LUSTMAN, Senior Metallurgist, WEC, Pittsburgh, was contacted regarding subject. LUSTMAN pointed out that he was formerly the subject's Superior at WEC prior to the time SHAPIRO founded NUMEC. He pointed out that SHAPIRO had done quite an extensive amount of traveling abroad in connection with his work for the United States AEC while at WEC and has also traveled considerably in his present position. He said that SHAPIRO has foreign connections, including Israel, and he recalled that SHAPIRO had been an officer in the organization known as Technion, which is a group supporting the University of Israel. He said he also knew that SHAPIRO was a member of a Zionist organization, exact name not recalled.] (S) (4)

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VI. COMMENTS REGARDING SHAPIRO'S MIGRATION TO ISRAEL

(U) PG T-3 advised on October 6, 1968, that SHAPIRO's sister, Mrs. ALAN (NIPBORAN) SCHWARTZ, while discussing her then impending trip to Israel, asked SHAPIRO where his property in Israel is located. According to PG T-3, SHAPIRO did not reply to the query.

(U) PG T-3 advised on October 16, 1968, that SHAPIRO told JACK GOLDBERMAN, then Vice President of Ford Motor Company, Detroit, Michigan, that he had given some consideration to resettling in Israel on a permanent basis. GOLDBERMAN, who left Ford to become Group Vice President of Research and Development for the Xerox Corporation, Rochester, New York, also indicated he had given this matter some thought in the past. According to source, GOLDBERMAN and SHAPIRO agreed that with the situation as it is in the United States, that with GEORGE C. WALLACE running for President, and the general unrest in the country, conditions here were similar to those in Germany in the 1930's.

Both also expressed the belief that if fighting becomes necessary, they would prefer to fight in Israel where a just cause existed, source advised.

(U) On October 26, 1968, PG T-3 advised that SHAPIRO indicated he learned of an interesting business opportunity in Israel. He said Allied Chemical Corporation (ACC), is building a chemical facility between Dibra and Arad near the Dead Sea, and ACC has encountered labor troubles; and as a result, construction has been very slow. According to source, SHAPIRO, who believes ACC may want to get out of the job, said that since Israel needs chemical facilities, the Israeli Government is offering very generous terms both as to financing and ownership of the plant. SHAPIRO indicated he believed he could raise the necessary money, and he would head a syndicate which would operate the plant.

(U) PG T-3 also related that SHAPIRO said the main product of the facility, if it is constructed, would be 60-100 tons of uranium annually with other main products including boric acid.

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itrium oxide and hydrobromic acid. SHAPIRO said he would contact  
one JIM JAFFE (phonetic), an acquaintance who had been with ACC  
for several years, and who will be in Israel at the same time as  
(U) SHAPIRO in late 1968. ~~(S) (X) (C)~~

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On December 9, 1968, it was established  
that JAMES JAFFE is the Chief Engineer, Specialty  
Chemicals Division, ACC. He resides at [redacted]  
[redacted] New Jersey, and has been employed by  
(U) ACC since October, 1949. He has a EOD, "Secret"  
clearance and an AEC QX clearance. ~~(S) (X) (C)~~

(U) PG T-3 has advised [that no additional information  
regarding the ACC deal has been obtained from SHAPIRO.] ~~(S) (X) (C)~~

(U) PG T-3 advised on November 8, 1968, that SHAPIRO,  
while discussing the possibility of living in Israel permanently,  
was advised by [redacted] that he is of more  
value to Israel if he continues to reside in the United States  
where Israel's problems can be more readily resolved. ~~(S) (X) (C)~~

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(U) [On November 8, 1968, PG T-3 advised that on that date  
SHAPIRO's sister, Mrs. SCHEFRIN, mentioned above, remarked that  
her recent vacation in Israel was "fantastic," due to her  
relationship to the subject. She related that everyone in  
Israel knows ZALMAN SHAPIRO.] ~~(S) (X) (C)~~

(U) PG T-3 advised on December 13, 1968, that on that date  
SHAPIRO indicated to JOSEPH SWARTZ, attorney and personal friend,  
that he is seriously considering the possibility of settling in  
Israel within the next five years. He made this comment, ~~(S) (X) (C)~~  
according to PG T-3, as a result of his recent trip to that  
country, having returned from Israel on December 12, 1968.  
With regard to this move, SHAPIRO indicated he is not positive  
of the type of work he would pursue should he migrate to Israel.  
(U) Source indicated that SHAPIRO said he had discussed several  
business opportunities with people in Israel, but he had reached  
no conclusion in this regard. ~~(S) (X) (C)~~

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VII. MISCELLANEOUS

(u) (S) [PG T-7 advised on June 5, 1968, that ELVEN LOWEN  
LOWENTHAL is a long-time personal friend of SHAPIRO. According  
to PG T-7, LOWENTHAL is President of Raychem Corporation, which  
has its facility immediately adjacent to KUMEC at Apollo, Jr.  
This source has pointed out that Raychem Corporation, a steel  
fabricating firm, occupied the same building with KUMEC prior to  
the time KUMEC moved to its new location on the outskirts of Apollo.  
This source also pointed out that LOWENTHAL is also an officer  
of Apollo Industries, and this company was instrumental in  
establishing KUMEC through the investment of a substantial  
amount of money when KUMEC was formed.

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(u) (S) [PG T-7, in addition to the information furnished  
above, has advised that LOWENTHAL has traveled to Israel  
frequently during the period [PG T-7] has been acquainted with him,  
which is over three years. Same source has pointed out that  
LOWENTHAL has been active in the United Jewish Appeal (UJA),  
and is one of its principal officers in the United States.

(U) PG T-3 advised on October 31, 1968, that LOWENTHAL  
tried but was unable to get in touch with SHAPIRO. Reason for  
this attempted contact was unknown to the source. (S) (S) (S)

Records of the United States Department of State,  
Passport Division, Washington, D. C., as reviewed August 1, 1968,  
indicated that LOWENTHAL visited Israel in 1965, 1966, and 1966.  
In 1966, when applying for his passport, LOWENTHAL indicated he  
would attend the World Zionist Congress in Israel for one month.  
In 1966, LOWENTHAL indicated he would be traveling in Italy,  
France and Israel on a US Study Mission.

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Passport records mentioned above also reflect that LOWENTHAL was born [redacted] in Lodz, Poland; home address - [redacted] Pittsburgh, Pa., wife - RITA MACHURA, born in Pittsburgh, Pa., in [redacted] that his parents were both born in Poland.

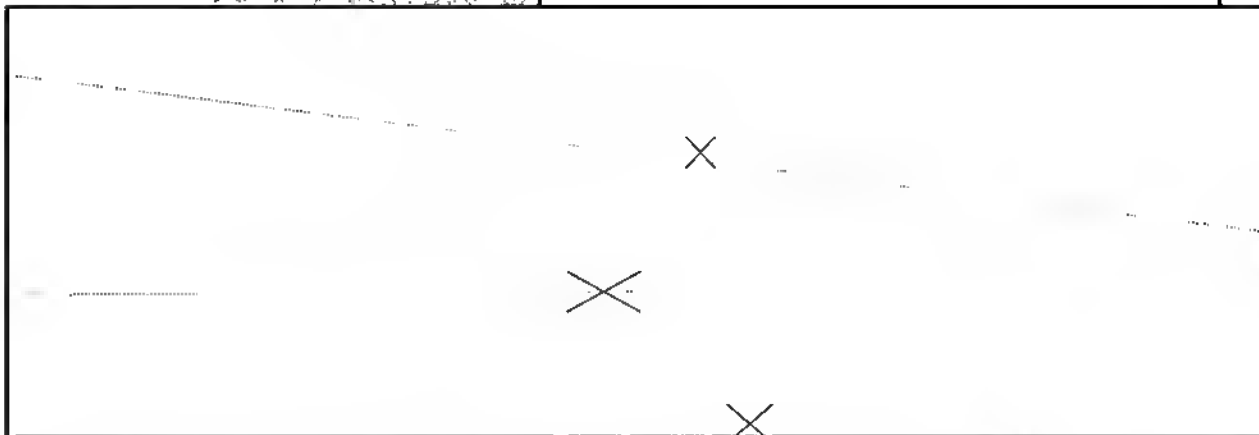
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Records of the Immigration and Naturalization Service, Washington, D. C., as checked July 31, 1968, reflect LOWENTHAL was awarded derivative citizenship on August 2, 1938, on the basis of his father's naturalization.

(U) ~~(S)~~ PG T-7 advised on July 3, 1968, and January 13, 1969, that a few days prior to those two dates LOWENTHAL left Pittsburgh enroute Europe and Israel. Sources did not know the purpose for these two visits to Israel.

PG T-4 advised on [redacted]

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On February 7, 1949, SALISAW MORRISON SHAPIRO executed a Personnel Security Questionnaire for the AEC on which he indicated that he was a member of the Independent Citizens Committee of the Arts, Sciences and Professions in 1946-1947.

The ICALP characterized above.

(U) ~~(S)~~ [In September, 1968, PG T-11] observed a list of names ~~(S)~~

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[ ]  
(u) ~~(S)~~ at Communist Party Headquarters headed, "Contact List." The name, Z. SHAPIRO, 951 Brooks Lane, appeared on this list. PG T-11 advised that he did not know the significance of this list. ~~(S)~~

It is noted that subject indicated on his PPO, executed on February 7, 1946, that he resided in Apartment 3-F, 951 Brooks Lane, Baltimore, Md., from 1945 to 1948.

(u) ~~(S)~~ In September, 1947, PG T-12 advised that the subject and his wife desired to become active in the ward clubs of the Progressive Citizens of America (PCA). According to PG T-12, ~~(S)~~ (u) the PCA in Baltimore, Md., was dominated and controlled by the Communist Party, USA. ~~(S)~~

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VIII. PHYSICAL DESCRIPTION

(u) ~~(S)~~ The following description of subject was obtained from [PG T-1, PG T-3] and through observation of subject by Special Agents of the FBI in [redacted] ~~(S)~~

Name	Mr. J. ZALMAN MORSECAI SHAPIRO
Sex	Male
Race	White
Date of Birth	May 12, 1920
Place of Birth	Canton, Ohio
Height	5'9"
Weight	170 pounds
Build	Slender
Eyes	Brown
Hair	Brown, graying at temples but recently dyed brown
Complexion	Medium
Scars and Marks	None known
Characteristics	Wears dark horn rimmed glasses
Peculiarities	Long thin nose, erect posture, due to dyed hair appears younger than age
Residence	[redacted] Pittsburgh 17, Pa.
Marital Status	Married
Wife	EVELYN GRANTING SHAPIRO, date of birth [redacted] Baltimore, Maryland, known to reside [redacted] Pittsburgh 17, Pa.
Known Relatives	[redacted]

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	Father - ABRAHAM SHAPIRO, deceased
	Mother - MINNIE SHAPIRO, deceased.
	Sister - MIRIAM SCHEFFER, born 1916, Passaic, New Jersey, resides 255 Lexington Avenue, Passaic, N. J.
	First cousin of wife: RACHEL RUBIN, resides Jaffa, Israel
	WILMA PORTUGAL, resides Tel Aviv, Israel
	ABRAHAM GILLESBERG, Tel Aviv, Israel
Education	Graduated 1948, John Hopkins University, Baltimore, Maryland
Degrees	BA 1942 MA 1946 Ph.D. 1948
Employment	Since February, 1957, President, Nuclear Materials and Equipment Corporation, Apollo, Pa., a subsidiary of Atlantic Richfield Company of Philadelphia, Pa., since 1967
Social Security Number	154-03-0034
Arrest Record	None Known
Drivers License Number	1966086 - Pennsylvania
Photograph	Available
Organization Membership	American Chemical Society, American Association for the Advancement of Science, American Technion Society, 6325 Forbes Street, Pittsburgh, Pa. Full member support of Engineering School,

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Vicariat Organization of America,  
Pittsburgh, Pa. H. F. Jones  
Building Annex,  
American Society for Metals,  
American Electrochemical Society,  
American Nuclear Society

Automobiles

1968 Ford Sedan, Registration  
Number 221711F, Pennsylvania  
1968 Buick Sedan, Registration  
Number 22170B, Pennsylvania

- SS -

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Dr. ~~FOOTNOTES~~

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BRINDEL, ABRAHAM.....37, 39, 41

BROGMANN, WILHELM.....39 (C)

BROGMANN, WILHELM.....37, 40, 41 (C)

42

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40, 41 (C)

BROGMANN, WILHELM.....42

14, 15, 16, 17, 22 (C)

BYRON, ABRAHAM.....36, 37 (C)

8, 13

6

FOOTNOTES, FREDERICK.....8, 9, 13

FRANKEL, RITA.....43

FOOTNOTES, DR. JACOB H. ....34, 35, 46 (C)

GRAY, OSCAR S. ....9, 11, 41, 42, 43

GROSSBERG, ANNA.....52

HARMON, POLING V. ....43

.....29

HELMUTH, DR. ABRAHAM.....30, 31, 34, 37, 38, 40 (C)

HETTON, RONALD.....34

HETTON, MR. ROBERT.....34 (C)

JARVIS, JAMES.....47

.....31 (C)

.....44, 45

MASTMAN, DR. WILLIAM C. ....32 (C)

MASTMAN, RITA.....33 (C)

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(U) [REDACTED]

(C) [REDACTED] ..... 44  
[REDACTED] ..... 32 (X)  
[REDACTED] ..... 8

(C) [REDACTED] ..... 48, 49  
LUBIN, DOROTHY ..... 39 (X)  
LUSTMAN, DR. BENJAMIN ..... 45

(U) [REDACTED] ..... 6  
[REDACTED] ..... 32, 34 (X)  
[REDACTED] ..... 32 (X)

(U) [REDACTED] ..... 9, 11  
[REDACTED] ..... 45

(C) [REDACTED] ..... 14, 44  
[REDACTED] ..... 8, 11  
[REDACTED] ..... 3  
[REDACTED] ..... 52  
[REDACTED] ..... 18  
[REDACTED] ..... 15, 16

(C) [REDACTED] ..... 18  
[REDACTED] ..... 32 (X)  
[REDACTED] ..... 32 (X)  
[REDACTED] ..... 52  
[REDACTED] ..... 32 (X)

(U) [REDACTED] ..... 35  
[REDACTED] ..... 33 (X)  
[REDACTED] ..... 32, 40, 47, 52  
[REDACTED] ..... 34 (X)  
[REDACTED] ..... 34 (X)

(U) [REDACTED] ..... 28  
[REDACTED] ..... 3, 52  
[REDACTED] ..... 47, 38  
[REDACTED] ..... 32 (X)  
[REDACTED] ..... 51

(C) [REDACTED] ..... 12, 13, 34, 35, 34, 51  
[REDACTED] ..... 51  
[REDACTED] ..... 32 (X)  
[REDACTED] ..... 52  
[REDACTED] ..... 34 (X)  
[REDACTED] ..... 36 (X)  
[REDACTED] ..... 35 (X)  
[REDACTED] ..... 35 (X)  
[REDACTED] ..... 41, 43, 47  
[REDACTED] ..... 44

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UNITED STATES DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
Pittsburgh, Pennsylvania

In Reply, Please Refer to  
File No. 87-128

February 10, 1968

(U) Title: MR. ZALMAN MONDRAI SHKOLLO  
Character: [IS - ISRAELI] (C)  
              ISRAELI ENERGY ACT  
Reference: Report of Special Agent  
              RONALD M. STANLEY, dated and  
              captioned as above, at  
              Pittsburgh, Pa.

All sources (except any listed below) whose  
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